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1876-1976

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1	1st ed. (reprint of 1876) – 5th ed. (1894)
2	6th ed. (1899) – 7th ed. (1911)
3	8th ed. (1913) – 9th ed. (1915)
4	10th ed. (1919) – 11th ed. (1922)
5	12th ed. (1927) – 2 volumes

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Boston

1899

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"To learn to classify is in itself an education" — ALEX. BAIN

Decimal Classification

and

Relativ Index

for libraries, clippings, notes, etc.

Sixth edition

By

Melvil Dewey, A. M. (*Amherst*)

Director New York State Library

1899

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EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction to the full edition from which the "Tables and Index" are reprinted.

INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.— The plan of the following Classification and Index was developt early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamflets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increast without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finisht. The methods used involvd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explaind proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamflets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind — the Arabic numerals — and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.— The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

Edition	Date	No. of pages				Copies printed
		Preface, etc.	Tables	Index	Total	
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?— A Relativ Index[1] with a subject classification, so numberd or letterd that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

[1]Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system — the relativ index, on which all else hinges — had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.— The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.— The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.— The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years' experiencc. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamflets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the catalog, in the scheme, or on the shelves, the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wiscly books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.— Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.— The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are markt *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considerd independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.— The selection and arrangement of the many thousand heads of the classification cannot be explaind in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge, as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.— Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.— Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possihle, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no further geografical division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.— When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.— In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.— The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

Minute classification.— On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestiond, if the user knows just what it is. With this plan it is not only practicable, but comparativly easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helpt by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.— Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450. 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are groupt together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alfabetical lists of (1) subjects, with class number of each, which may be subdivided geografically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliografy of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliografy of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.— We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemd the most useful way, all things considerd. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemd more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extendcd to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.— Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamflet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.[1] In finding books, the printed numbers on the backs are followd, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

[1] For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.— Most libraries have abandond close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are groupt in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefixt to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solvd, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the clast catalog on cards.

Name catalog.— In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single colum as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the colum for the class number wanted.

Shelf list.— In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in colums accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.— In the card catalog of subjects the classification is mapt out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alfabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for convenience the name as well as the number of the subject; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog.— While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandond as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliografy. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

ADVANTAGES

Shelves.— The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangment, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mentiond under Relativ location, p. 19.

Shelf list.— By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gaind with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark colums. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.— These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferd, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,— for the check box is necessary as a record of loans,— is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.— In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.— When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.— The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.— Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.— Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.— The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, rememberd, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamflets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be lookt up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 as 272, while "two seventy, point two" can never be misunderstood.

USE OF TABLES AND INDEX

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. **As a check against error, use the index freely,** even tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult: —

1. **The title,** since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone but always examin also

2. **Table of contents,** which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters,** or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.** — If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27[9].

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould,* but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 28[7].

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.— Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be alterd. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accuratèly to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, — a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; e. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.— In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently markt 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.— The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,— has led most libraries to arrange books under each class number alfabetically by authors, or in local history by towns, or in biografy by biografees. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.— A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.[1]

[1] Full explanations of the best methods for both arrangements, with complete tables, can be had of the publishers of this work.

Accession order.— A third arrangement — simpler but otherwise less desirable — is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513 A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g. $5\frac{1}{1}3$ or 513–1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considerd in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Cautions.— Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compeld to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnd if numbers have been already assignd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimd at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the coöperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the "relativ index system," oftener called the "Dewey system." For its essentials see p. 87–9.

1. **Letter notations for changes.**—To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as indext.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.—In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefixt to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alfabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

Biografy.— A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biografies in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.— By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.— This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be groupt under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.— The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 36^{7}–37^{4}.

Reference library.— To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial 0 in the class "General works" was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial 0 is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinisht number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to snow that a figure is omitted.

2. **Contractions for specialists.**— The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "— 5". A body of such notes can be inserted together in their place in an index at 839.715, with a colord card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. **Use of alfabet or chronology for final subdivisions.**— While our plan is decimal as distinguisht from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. Frequently in minute divisions it is economy to arrange alfabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biografy, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3–.99. If this change is wisht, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alfabetically by elements," e. g.:—

546.3	**Metals.**	**Arrange metals alfabetically.**
·31	Alkali group.	
·32	Potassium.	
·33	Sodium.	
·33	Lithium.	
·34	Rubidium.	
·35	Caesium.	

Then find each of these heads in the index and cancel all figures after 546.3, e. g.:—

Potassium, inorganic chemistry, 546.32
Rubidium, " " 546.35

This plan has special value in this place, as new elements are discoverd from time to time, and can readily be inserted in alfabetic place. Still many chemists think it valuable to have similar metals groupt together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14[4].

4. **Broken order.**— Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biografy are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gaind, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**— It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is groupt into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog,

the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamflets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 530 Atlantic avenue, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.—The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raisd, and which he could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involvd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvements in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receivd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential

features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangement of the St Louis Library has been followd. The author has no desire to claim original invention for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hope that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

TABLES

FIRST SUMMARY

CLASSES

0 General works

1 Philosophy

2 Religion

3 Sociology

4 Philology

5 Natural science

6 Useful arts

7 Fine arts

8 Literature

9 History

DIVISIONS

000 General works
- 010 Bibliography
- 020 Library economy
- 030 General cyclopedias
- 040 General collections
- 050 General periodicals
- 060 General societies
- 070 Newspapers
- 080 Special libraries. Polygraphy
- 090 Book rarities

100 Philosophy
- 110 Metaphysics
- 120 Special metaphysical topics
- 130 Mind and body
- 140 Philosophical systems
- 150 Mental faculties. Psychology
- 160 Logic. Dialectics
- 170 Ethics
- 180 Ancient philosophers
- 190 Modern philosophers

200 Religion
- 210 Natural theology
- 220 Bible
- 230 Doctrinal. Dogmatics. Theology
- 240 Devotional. Practical
- 250 Homiletic. Pastoral. Parochial
- 260 Church. Institutions. Work
- 270 Religious history
- 280 Christian churches and sects
- 290 Ethnic. Non-Christian

300 Sociology
- 310 Statistics
- 320 Political science
- 330 Political economy
- 340 Law
- 350 Administration
- 360 Associations and institutions
- 370 Education
- 380 Commerce. Communication
- 390 Customs. Costumes. Folklore

400 Philology
- 410 Comparative
- 420 English
- 430 German
- 440 French
- 450 Italian
- 460 Spanish
- 470 Latin
- 480 Greek
- 490 Minor languages

500 Natural science
- 510 Mathematics
- 520 Astronomy
- 530 Physics
- 540 Chemistry
- 550 Geology
- 560 Paleontology
- 570 Biology
- 580 Botany
- 590 Zoology

600 Useful arts
- 610 Medicine
- 620 Engineering
- 630 Agriculture
- 640 Domestic economy
- 650 Communication. Commerce
- 660 Chemical technology
- 670 Manufactures
- 680 Mechanic trades
- 690 Building

700 Fine arts
- 710 Landscape gardening
- 720 Architecture
- 730 Sculpture
- 740 Drawing. Decoration. Design
- 750 Painting
- 760 Engraving
- 770 Photography
- 780 Music
- 790 Amusements

800 Literature
- 810 American
- 820 English
- 830 German
- 840 French
- 850 Italian
- 860 Spanish
- 870 Latin
- 880 Greek
- 890 Minor languages

900 History
- 910 Geography and travels
- 920 Biography
- 930 Ancient history
- 940 Europe
- 950 Asia
- 960 Africa
- 970 North America
- 980 South America
- 990 Oceanica and polar regions

(940–990: Modern)

General Works

Limited to *none* of the nine classes

000
- 001
- 002
- 003
- 004
- 005
- 006
- 007
- 008
- 009

Left blank for local history or biography, etc. where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliography
- 011 General bibliographies
- 012 Of individual authors
- 013 special classes of authors
- 014 " forms, pseudonyms, etc.
- 015 " countries
- 016 " subjects
- 017 Classed catalogs
- 018 Author "
- 019 Dictionary "

020 Library economy
- 021 Scope and founding
- 022 Buildings
- 023 Government and service
- 024 Regulations for readers
- 025 Administration. Departments
- 026 Libraries on special subjects
- 027 General libraries. Reports, etc.
- 028 Reading and aids
- 029 Literary methods. Labor savers

030 General cyclopedias
- 031 American
- 032 English
- 033 German
- 034 French
- 035 Italian
- 036 Spanish
- 037 Slavic
- 038 Scandinavian
- 039 Minor languages

040 General collected essays
- 041 American
- 042 English
- 043 German
- 044 French
- 045 Italian
- 046 Spanish
- 047 Slavic
- 048 Scandinavian
- 049 Minor languages

050 General periodicals
- 051 American
- 052 English
- 053 German
- 054 French
- 055 Italian
- 056 Spanish
- 057 Slavic
- 058 Scandinavian
- 059 Minor languages

060 General societies
- 061 American
- 062 English
- 063 German
- 064 French
- 065 Italian
- 066 Spanish
- 067 Slavic
- 068 Scandinavian
- 069 Minor languages

070 Newspapers. Journalism
- 071 American
- 072 English
- 073 German
- 074 French
- 075 Italian
- 076 Spanish
- 077 Slavic
- 078 Scandinavian
- 079 Minor languages

080 Special libraries. Polygraphy
- 081
- 082
- 083
- 084
- 085
- 086
- 087
- 088
- 089

Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i. e. are bound pamphlets, essays, addresses, scrap or note books, etc. too general in scope to go under any single class. Juveniles could be put here, but are better kept in a separate class, marked J.

090 Book rarities
- 091 Manuscripts. Autographs.
- 092 Block books
- 093 Early printed. Incunabula
- 094 Rare printing. Privately printed
- 095 Rare binding
- 096 Rare illustrations or materials
- 097 Ownership. Bookplates
- 098 Prohibited. Lost. Imaginary
- 099 Other rarities. Curiosa

Philosophy

100 Philosophy
- 101 Utility
- 102 Compends
- 103 Dictionaries
- 104 Essays
- 105 Periodicals
- 106 Societies
- 107 Study and teaching
- 108 Polygraphy. Maxims
- 109 History

110 Metaphysics
- 111 Ontology
- 112 Methodology
- 113 Cosmology
- 114 Space
- 115 Time
- 116 Motion
- 117 Matter
- 118 Force
- 119 Quantity. Number

120 Metaphysical topics
- 121 Knowledge: origin, limits
- 122 Causation. Cause and effect
- 123 Liberty and necessity
- 124 Teleology. Final causes
- 125 Infinite and finite
- 126 Consciousness. Personality
- 127 Unconsciousness. Automata
- 128 The soul
- 129 Origin of the individual soul

130 Mind and body
- 131 Mental physiology and hygiene
- 132 Mental derangements
- 133 Delusions. Witchcraft. Magic
- 134 Mesmerism. Clairvoyance
- 135 Sleep. Dreams. Somnambulism
- 136 Mental characteristics
- 137 Temperaments
- 138 Physiognomy
- 139 Phrenology. Mental photographs

140 Philosophical systems
- 141 Idealism. Transcendentalism
- 142 Critical philosophy
- 143 Intuitionalism
- 144 Empiricism
- 145 Sensationalism
- 146 Materialism. Positivism
- 147 Pantheism. Monism
- 148 Eclecticism
- 149 Other philosophical systems

150 Mental faculties
- 151 Intellect
- 152 Sense perceptions
- 153 Understanding
- 154 Memory
- 155 Imagination
- 156 Reason. Intuitive faculty
- 157 Sensibility. Emotions
- 158 Instincts. Appetites
- 159 Will

160 Logic. Dialectics
- 161 Inductive
- 162 Deductive
- 163 Assent
- 164 Symbolic. Algebraic
- 165 Sources of error. Fallacies
- 166 Syllogism. Enthymeme
- 167 Hypotheses
- 168 Argument and persuasion
- 169 Analogy. Correspondence

170 Ethics
- 171 Theories of ethics
- 172 State ethics
- 173 Family ethics
- 174 Professional and business ethics
- 175 Ethics of amusements
- 176 Sexual ethics
- 177 Social ethics
- 178 Temperance
- 179 Other ethical topics

180 Ancient philosophers
- 181 Oriental
- 182 Early Greek
- 183 Sophistic and Socratic
- 184 Platonic
- 185 Aristotelian
- 186 Pyrrhonist. New Platonist
- 187 Epicurean
- 188 Stoic
- 189 Early Christian and medieval

190 Modern philosophers
- 191 American
- 192 British
- 193 German
- 194 French
- 195 Italian
- 196 Spanish
- 197 Slavic
- 198 Scandinavian
- 199 Other modern

Religion

200 Religion
- 201 Philosophy. Theories
- 202 Compends
- 203 Dictionaries
- 204 Essays
- 205 Periodicals
- 206 Societies
- 207 Education. Theological schools
- 208 Polygraphy
- 209 History of theology

210 Natural theology
- 211 Deism and atheism
- 212 Pantheism. Theosophy
- 213 Creation. Evolution
- 214 Providence. Theodicy. Fatalism
- 215 Religion and science
- 216 Evil. Depravity
- 217 Prayer
- 218 Future life. Immortality
- 219 Analogies. Correspondences

220 Bible
- 221 Old Testament
- 222 Historical books
- 223 Poetic "
- 224 Prophetic "
- 225 New Testament
- 226 Gospels and Acts
- 227 Epistles
- 228 Apocalypse
- 229 Apocrypha

230 Doctrinal. Dogmatics
- 231 God. Unity. Trinity
- 232 Christ. Christology
- 233 Man. The fall. Sin
- 234 Salvation. Soteriology
- 235 Angels. Devils. Satan
- 236 Eschatology. Death. Judgment
- 237 Future state
- 238 Creeds. Catechisms
- 239 Apologetics. Evidences

240 Devotional. Practical
- 241 Didactic
- 242 Meditative
- 243 Hortatory
- 244 Miscellany. Fiction
- 245 Hymnology. Religious poetry
- 246 Ecclesiology. Symbolism
- 247 Sacred furniture, vessels, etc.
- 248 Personal religion. Asceticism
- 249 Family devotions

250 Homiletic. Pastoral. Parochial
- 251 Homiletics. Preaching
- 252 Sermons
- 253 Pastoral visitations. Evangelistic
- 254 Clerical support. Celibacy
- 255 Brotherhoods. Sisterhoods
- 256 Societies for parish work. Gilds
- 257 Parochial schools, libraries, etc.
- 258 Parish care of sick, fallen, etc.
- 259 Other ministrations and work

260 Church. Institutions. Work
- 261 Church
- 262 Ecclesiastical polity
- 263 Sabbath Lord's day. Sunday
- 264 Public worship. Ritual
- 265 Sacraments. Ordinances
- 266 Missions. Home and foreign
- 267 Associations. Y. M. C. A. etc.
- 268 Sunday schools
- 269 Revivals. Retreats

270 Religious history
- 271 Monastic orders
- 272 Persecutions
- 273 Heresies
- 274 Europe
- 275 Asia
- 276 Africa
- 277 North America
- 278 South America
- 279 Oceanica

280 Christian churches & sects
- 281 Primitive and oriental
- 282 Roman catholic
- 283 Anglican and American P. E.
- 284 Continental protestant
- 285 Presbyterian. Congregational
- 286 Baptist
- 287 Methodist
- 288 Unitarian
- 289 Minor Christian sects

290 Ethnic. Non-Christian
- 291 Comparative & general mythology
- 292 Greek and Roman
- 293 Teutonic and Northern
- 294 Brahmanism. Buddhism
- 295 Parseeism
- 296 Judaism
- 297 Mohammedanism
- 298 Mormonism
- 299 Minor non-Christian religions

Sociology

300 Sociology
- 301 Philosophy. Theories
- 302 Compends
- 303 Dictionaries
- 304 Essays
- 305 Periodicals
- 306 Societies
- 307 Education
- 308 Polygraphy
- 309 History of sociology

310 Statistics
- 311 Theory. Methods
- 312 Population
- 313 Special topics
- 314 Europe
- 315 Asia
- 316 Africa
- 317 North America
- 318 South America
- 319 Oceanica

320 Political science
- 321 Form of state
- 322 Church and state
- 323 Internal or domestic relations
- 324 Suffrage
- 325 Colonies and immigration
- 326 Slavery
- 327 Foreign relations
- 328 Legislative bodies and annals
- 329 Political parties

330 Political economy
- 331 Capital. Labor. Wages
- 332 Banks. Money. Credit. Interest
- 333 Land. Ownership. Rights and rent
- 334 Cooperation
- 335 Socialism and communism
- 336 Finance. Public funds. Taxation
- 337 Protection and free trade
- 338 Production. Manufacture. Prices
- 339 Pauperism

340 Law
- 341 International law
- 342 Constitutional law and history
- 343 Criminal law
- 344 Martial law
- 345 U. S. statutes and cases
- 346 British statutes and cases
- 347 Treatises. American and British
- 348 Canon law
- 349 Foreign law. Roman

350 Administration. Army
- 351 Administration of central gov't
- 352 Local government. City. Town
- 353 United States and state
- 354 Foreign states
- 355 Army. Military science
- 356 Infantry
- 357 Cavalry
- 358 Artillery
- 359 Navy. Naval science

360 Associations. Institutions
- 361 Charitable
- 362 Hospitals. Asylums
- 363 Political
- 364 Reformatory
- 365 Prisons. Discipline
- 366 Secret societies
- 367 Social clubs
- 368 Insurance
- 369 Other

370 Education
- 371 Teachers, methods, and discipline
- 372 Elementary. Kindergarten
- 373 Intermediate
- 374 Self-education and culture
- 375 Curriculum
- 376 Education of women
- 377 Religious, ethical and secular
- 378 Colleges and universities
- 379 Public schools. State education

380 Commerce. Communication
- 381 Domestic trade
- 382 Foreign trade. Consular reports
- 383 Postoffice
- 384 Telegraph. Cable. Telephone
- 385 Railroad and express
- 386 Canal and highway transportation
- 387 River and ocean transportation
- 388 City transit
- 389 Weights and measures. Metrology

390 Customs. Popular life
- 391 Costume and care of person
- 392 Birth, home and sex customs
- 393 Treatment of dead
- 394 Public and social customs
- 395 Etiquet
- 396 Woman's position and treatment
- 397 Gipsies. Nomads. Outcast races
- 398 Folklore. Proverbs, etc.
- 399 Customs of war

Philology

400 Philology
- 401 Philosophy
- 402 Compends
- 403 Dictionaries
- 404 Essays
- 405 Periodicals
- 406 Societies
- 407 Study and teaching
- 408 Polygraphy
- 409 History of language

410 Comparative
- 411 Orthography. Alphabets
- 412 Etymology
- 413 Dictionaries
- 414 Phonology
- 415 Grammar
- 416 Prosody
- 417 Inscriptions
- 418 Texts
- 419 Hieroglyphics

420 English
- 421 Orthography
- 422 Etymology
- 423 Dictionaries
- 424 Synonyms
- 425 Grammar
- 426 Prosody
- 427 Dialects
- 428 School texts
- 429 Anglo-Saxon

430 German
- 431 Orthography
- 432 Etymology
- 433 Dictionaries
- 434 Synonyms
- 435 Grammar
- 436 Prosody
- 437 Dialects
- 438 School texts
- 439 Minor Teutonic

440 French
- 441 Orthography
- 442 Etymology
- 443 Dictionaries
- 444 Synonyms
- 445 Grammar
- 446 Prosody
- 447 Dialects
- 448 School texts
- 449 Provençal

450 Italian
- 451 Orthography
- 452 Etymology
- 453 Dictionaries
- 454 Synonyms
- 455 Grammar
- 456 Prosody
- 457 Dialects
- 458 School texts
- 459 Rumansh and Wallachian

460 Spanish
- 461 Orthography
- 462 Etymology
- 463 Dictionaries
- 464 Synonyms
- 465 Grammar
- 466 Prosody
- 467 Dialects
- 468 School texts
- 469 Portuguese

470 Latin
- 471 Orthography
- 472 Etymology
- 473 Dictionaries
- 474 Synonyms
- 475 Grammar
- 476 Prosody
- 477 Dialects
- 478 School texts
- 479 Minor Italic

480 Greek
- 481 Orthography
- 482 Etymology
- 483 Dictionaries
- 484 Synonyms
- 485 Grammar
- 486 Prosody
- 487 Dialects
- 488 School texts
- 489 Minor Hellenic

490 Minor languages
- 491 Minor Indo-European
- 492 Semitic
- 493 Hamitic
- 494 Scythian. Turanian
- 495 Eastern Asiatic
- 496 African
- 497 North American
- 498 South American
- 499 Malay-Polynesian and other

Natural Science

500 Natural science
- 501 Philosophy
- 502 Compends
- 503 Dictionaries
- 504 Essays
- 505 Periodicals
- 506 Societies
- 507 Education. Museums
- 508 Polygraphy
- 509 History

510 Mathematics
- 511 Arithmetic
- 512 Algebra
- 513 Geometry. Conic sections
- 514 Trigonometry
- 515 Descriptive geometry
- 516 Analytic geometry. Quaternions
- 517 Calculus
- 518
- 519 Probabilities

520 Astronomy
- 521 Theoretic
- 522 Practical and spherical
- 523 Descriptive
- 524 Maps and observations
- 525 Earth
- 526 Geodesy
- 527 Navigation
- 528 Ephemerides
- 529 **Chronology**

530 Physics
- 531 Mechanics
- 532 Liquids. Hydraulics
- 533 Gases. Pneumatics
- 534 Sound. Acoustics
- 535 Light. Optics
- 536 Heat
- 537 Electricity
- 538 Magnetism
- 539 Molecular physics

540 Chemistry
- 541 Theoretic
- 542 Practical and experimental
- 543 Analysis
- 544 Qualitative
- 545 Quantitative
- 546 Inorganic
- 547 Organic
- 548 **Crystallography**
- 549 **Mineralogy**

550 Geology
- 551 Physical and dynamic geology
- 552 Lithology. Petrography
- 553 Economic geology
- 554 Europe
- 555 Asia
- 556 Africa
- 557 North America
- 558 South America
- 559 Oceanica. Polar regions

560 Paleontology
- 561 Plants
- 562 Invertebrates
- 563 Protozoa. Radiates
- 564 Mollusks
- 565 Articulates
- 566 Vertebrates
- 567 Fishes. Batrachia
- 568 Reptiles. Birds
- 569 Mammals

570 Biology Ethnology
- 571 **Prehistoric archeology**
- 572 **Ethnology. Anthropology**
- 573 **Natural history of man**
- 574 Homologies
- 575 Evolution. Species
- 576 Origin and beginnings of life
- 577 Properties of living matter
- 578 Microscopy
- 579 Collectors manuals

580 Botany
- 581 Physiologic and structural
- 582 Phanerogamia
- 583 Dicotyledonae
- 584 Monocotyledonae
- 585 Gymnospermae
- 586 Cryptogamia
- 587 Pteridophyta
- 588 Bryophyta
- 589 Thallophyta

590 Zoology
- 591 Physiologic zoology
- 592 Invertebrates
- 593 Protozoa. Radiates
- 594 Mollusks
- 595 Articulates
- 596 Vertebrates
- 597 Fishes. Batrachia
- 598 Reptiles. Birds
- 599 Mammals

Useful Arts

600 Useful arts
- 601 Philosophy
- 602 Compends
- 603 Dictionaries
- 604 Essays
- 605 Periodicals
- 606 Societies. Fairs. Exhibitions
- 607 Education. Schools of technology
- 608 Patents. Inventions
- 609 History of useful arts

610 Medicine
- 611 Anatomy
- 612 Physiology
- 613 Hygiene. Gymnastics. Training
- 614 Public health
- 615 Materia medica. Therapeutics
- 616 Pathology. Diseases. Treatment
- 617 Surgery. Dentistry
- 618 Diseases of women and children
- 619 Comparative medicine. Veterinary

620 Engineering
- 621 Mechanical
- 622 Mining
- 623 Military. Naval
- 624 Bridge and roof
- 625 Road and railroad
- 626 Canal
- 627 River and harbor
- 628 Sanitary. Waterworks
- 629 Other branches

630 Agriculture
- 631 Soil. Fertilizers. Drainage
- 632 Pests. Hindrances. Blights. Insects
- 633 Grains. Grasses. Fibers. Tea, etc.
- 634 Fruits. Orchards. Vineyards
- 635 Kitchen garden
- 636 Domestic animals
- 637 Dairy. Milk. Butter. Cheese
- 638 Bees. Silkworms
- 639 **Fishing. Trapping**

640 Domestic economy
- 641 Cookery. Gastronomy
- 642 Confectionery. Ices
- 643 Food. Dining. Carving
- 644 Fuel. Lights
- 645 Furniture. Carpets. Upholstery
- 646 Clothing. Toilet. Cosmetics
- 647 Servants: training, duties, wages
- 648 Laundry
- 649 Nursery. Children. Sickroom

650 Communication. Commerce
- 651 Office equipment and methods
- 652 Writing. Materials. Typewriters
- 653 Abbreviations. Shorthand
- 654 Telegraph. Cables. Signals
- 655 Printing. Publishing. Copyright
- 656 Transportation. Railroading, etc.
- 657 Bookkeeping. Accounts
- 658 Business manuals. Methods. Tables
- 659 Advertising and other topics

660 Chemical technology
- 661 Chemicals
- 662 Pyrotechnics. Explosives
- 663 Beverages: wines, liquors, ales, etc.
- 664 Foods: sugar, starch, etc.
- 665 Lights: gas, oil, candles, etc.
- 666 Ceramics: glass, clay, cement, etc.
- 667 Bleaching. Dyeing. Inks. Paints
- 668 Other organic chemical industries
- 669 **Metallurgy. Assaying**

670 Manufactures
- 671 Articles made of metals
- 672 Of iron and steel; stoves, cutlery
- 673 Of brass and bronze; bells, etc.
- 674 Lumber and articles made of wood
- 675 Leather " " leather
- 676 Paper " " paper
- 677 Cotton, wool, silk, linen, etc.
- 678 Rubber and articles made of rubber
- 679 Celluloid and other

680 Mechanic trades
- 681 Watch and instrument making
- 682 Blacksmithing. Horseshoeing
- 683 Lock and gun making
- 684 Carriage and cabinet making
- 685 Saddlery and shoemaking. Trunks
- 686 Bookbinding
- 687 Clothesmaking. Hats
- 688
- 689 Other trades

690 Building
- 691 Materials. Processes. Preservatives
- 692 Plans and specifications
- 693 Masonry. Plastering, etc.
- 694 Carpentry. Stairbuilding
- 695 Roofing. Slating and tiling
- 696 Plumbing. Gas and steam fitting
- 697 Heating and ventilation
- 698 Painting. Glazing. Paperhanging
- 699 **Car and ship building**

Fine Arts

700 Fine arts
701 Philosophy. Esthetics
702 Compends
703 Dictionaries
704 Essays
705 Periodicals
706 Societies
707 Education. Study
708 Art galleries
709 History of art

710 Landscape gardening
711 Public parks
712 Private grounds. Lawns
713 Walks. Drives
714 Water. Fountains. Lakes
715 Trees. Hedges. Shrubs
716 Plants. Flowers. Conservatories
717 Arbors. Seats. Outlooks
718 Monuments. Mausoleums
719 Cemeteries

720 Architecture
721 Architectural construction
722 Ancient and oriental
723 Medieval. Gothic
724 Modern
725 Public buildings
726 Ecclesiastical and religious
727 Educational and scientific
728 Residences
729 Design and decoration

730 Sculpture
731 Materials and methods
732 Ancient
733 Greek and Roman
734 Medieval
735 Modern
736 Carving. Seals. Dies. Gems
737 Numismatics. Coins. Medals
738 Pottery. Porcelain
739 Bronzes. Bric-à-brac

740 Drawing. Decoration
741 Freehand. Crayon
742 Perspective
743 Art anatomy. Life school
744 Mathematical drawing
745 Ornamental design. Carpet, etc.
746 Art needlework
747 Interior decoration
748 Stained and iridescent glass
749 Artistic furniture

750 Painting
751 Materials and methods
752 Color
753 Epic. Mythic. Idealistic
754 Genre. Still life
755 Religious. Ecclesiastic
756 Historical. Battles, etc
757 Portrait
758 Landscape. Marine
759 Various schools

760 Engraving
761 Wood
762 Copper. Steel
763 Lithography
764 Chromolithography
765 Line. Stipple
766 Mezzotint. Aquatint
767 Etching. Dry point
768 Banknote. Machine
769 Collections of engravings

770 Photography
771 Photographic chemistry
772 Silver processes, etc.
773 Gelatine and pigment processes
774 " and printer's ink. Albertype
775 Photolithography, etc.
776 Photozincography, etc.
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INCLUDING ALL THE

SUB-SECTIONS

General works

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training, see also 020.7; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

011 is by Authors. If by Subjects they go in 016.
012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections.

012 Of Individual Authors.

Alphabeted by bibliographees, not by compilers; e. g. Chaucer, Dante, Ruskin, etc. Authors on whom special collections are being made (e. g. in 800s), attract their bibliographies to same number, leaving only a reference here.

013 Of Special Classes of Authors.

e. g. Books written by Jesuits, by Catholics, by members of the Bavarian academy, etc. or these may go with the bibliography of the church, society, etc., with references here.

014 Of Special Forms. Anonyms, Pseudonyms, etc.

.1, American; .2, English; .3, German, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. Subdivided by countries like 940-999; e. g. 015.42, Bibliography of books published in England, as Lowndes or English Catalog.
The history of literature, i. e. belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000-999; e. g. 016.01, Bibliography of bibliographies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

Library and Sale Catalogs.

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017-019 therefore includes only catalogs of general collections, limited to no one class or subject.

017 Classed Catalogs. Systematic or Logical.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.
For all forms of alphabetical subject catalogs, see 019. See 016 for Bibliographies.

018 Author Catalogs. See 011 for Bibliographies.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.
A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronological, and any other forms (except subject and dictionary) of catalogs of collections.

019 Dictionary Catalogs. Alphabetico-classed, etc.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

020 Library Economy.

.1, Coöperation; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Training; .8, Polygraphy; .9, History.

021 Scope and Founding of Libraries.

.1 Scope and Usefulness. See 331.85 for Laboring classes.

.2 Library as an Educator; as People's University.

.3 Library in Relation to Schools and the Young.
See 371.64 and 027.8, School libraries.

.4 Library Lectures, Museums, Galleries, etc.

.5 Library as a Public Recreation.

.6 Founding. Extension.

.7 Developing Interest; by Press, Lectures, School, Pulpit, Societies. Circulars, etc.

.8 Legislation; State and Local.

9 Raising Funds. Securing Gifts of Books, etc.
Subscriptions, bequests, lectures, fairs, membership fees, taxes, government aid (remitted duties, public documents, foreign exchanges, etc.).

022 Buildings. See also 727.8, Architecture.

.1 Location. Provision for Growth. Branches. Deliveries.

.2 Materials and Protection against Fire. Library Fires.

.3 Plans. Number, Size, and Arrangement of Rooms.
See 720.2.

.4 Storage Rooms. Stacks. Alcoves. Galleries.

.5 Reading Rooms. Central Halls. Small Study Rooms.

.6 Administration and Special Rooms.
Cataloging, office, patent, newspaper, public document, duplicate, class, lecture, museum, art, chess, conversation, waiting, coat, toilet, etc.

.7 Lighting. Natural and Artificial. Electric, Gas, etc.
See 621.32, Electric lighting.

.8 Heating and Ventilation as Affecting Books.
See 697, Building, Heating, etc. See 621.19, 628.8.

.9 Fixtures. Furniture and Fittings. Shelving, Counters, Hoists, Desks, Tables, Chairs, etc.

023 Government and Service.

.1 Constitution and By-Laws for Managers.

.2 Appointment and Tenure of Officers.

.3 Trustees. Committees. Directors.

.4 Chief Librarian. Qualification. Duties. See 920.2, Lives.

.5 Staff. Assistants, Catalogers, Janitor.

.6 Daily Hours. Vacations.

.7 Titles and Duties.

.8 Salaries.

.9 Rules for Staff.

024 Regulations for Readers.

.1 Readers' Qualifications.
User's age, Residence, Guarantees, References, Registration.

.2 Fees and Assessments. Free Use. See 027.2; 027.4.

.3 Hours of Opening. Evening Opening.

.4 Closing. Sunday, Holiday, Vacation, Examination.
See 263.7, Sunday; 025.8, Examination.

.5 Reference Use.
Access to Catalogs, Librarians, and Shelves. Reading-Room Rules. Decorum in Library.

.6 Home Use.
Number of Books, Time, Delinquencies, Fines, Re-lending, Restrictions, Renewals.

.7 Special Privileges to Readers.
Extra Books. Extra Time. Reservations. Suspension of Rules. Excuses.

.8 Injuries. Defacements. Mutilations. Losses. Thefts.

.9 Other Regulations for Users.

025 Administration. Departments.

025 is for the librarian's part. The trustees build and furnish (022); make rules for government and service (023), and regulations for readers (024); but the administration involves questions of its own, which, however, are closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686).

Administration includes .1, Supervision; .2, Acquisition; .3–6, Utilization; .7–9, Preservation; i. e. the librarian's duty to books is to Get, Use, Keep.

.1 Executive. General supervision.
Finances, accounts, salaries (see 023.8); Supplies, printing; Publications, statistics, reports, bulletins; Relations to readers, permits, privileges, visitors; Correspondence.

.2 Accession. Acquisition.
Selecting and buying books, serials, pamphlets, ephemera; Prices, discounts, duty free importation (see 337.8); Auctions, old book lists; Sale duplicates, exchanges, gifts (see also 021.9); Reception, checking bills, collation; Plating, pocketing, embossing, private marking; Accessioning; Order slips, index and book, order and serial blanks.

.3 Catalog. For printed catalogs themselves, see 017–019. This is for *cataloging*.
Printed, manuscript, or card; Author, subject, title, classed; Dictionary or combined; Coöperative rules; Size notation; Coöperative cataloging; Duplicated titles, print or photography; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels.

.4 Classification.
For philosophical classification of knowledge, see 112, Methodology. This is for practical classing of books, pamphlets, and notes, rather than theoretical speculation.
On shelves; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close *vs.* broad classing; Mnemonic features; Basis of division; Co-ordination of special subjects.

.5 Reference. Reference books. Aids to readers.
See 028 for general discussion of reading and aids. This is limited to library administration.

.6 Loan. See 024.1 and 024.6 for regulations.
Indicators; Charging systems, legers *vs.* cards; Book cards, marks, pockets; Call slips, readers' cards; Notices, reserves; Registers; Inter-library loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 Binding and repair. See also 686, Bookbinding.
Materials, durability, tight *vs.* spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling

.8 Shelf. See 022.9, Shelving.
Arrangement; Shelf numbers; Shelf and book labels; Fixed and relative locations Sizes on shelves; Arrangement and preservation of public documents, pamphlets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Injuries, heat, gas, insects; Stock taking; Shelf lists.

.9 Building. Care, cleaning, safety. Janitor. Police.
See 022 for building and fittings. This is janitor's department.

026 Libraries on special subjects.

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in one of the sections above. Subdivided by adding the class number of subject; e. g. a Medical Library is 026.61; a Chess Library, 026.794; but the Catalog of a Chess Library is 016.794; Blanks, etc., from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026–7, thus making a complete set of its publications

027 General libraries.

This includes both circulating and reference; i. e. all not limited to special subjects. Subdivided if wished by countries, like 930–999; e. g. 027.744, College libraries in France. Or if wished, group all by geographical location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044, Libraries of France; 027.07471, Libraries of N. Y. City.

A private library is still classed 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change.

.1 Private and family.

.2 Proprietary, Society, Club and Athenæum.

.2 is limited to libraries that are semi-private, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantile library, even though it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2.

.3 Subscription. Circulating. e. g. Mudie's, etc.

.4 Free public. Rate supported. Endowed. See 331.85.

.5 State and government.

.6 For special classes.

Institution, prison, reformatory, asylum, monastic, workmen's, factory, railroad, sailors, lighthouse, itinerating. A workmen's library of books on engineering goes 026.62, not here, as the subject is more useful than the class of readers.

.7 College.

.8 School. Sunday-school. Parish. See also 371.64; 021.3.

.9 Free news-rooms and reading-rooms. See also 331.85.

028 Reading and aids.

See 374.1–2, Self education by private reading and reading circles.

.1 Methods.

Tasting, skipping, reviewing, making synopses, abstracts, extracts. and index rerums (see 029), book marking.

.2 Choice of editions. Annotations, indexes, paper, type.

.3 Courses of reading.

.4 Fiction. Novel reading.

.5 Reading of young. Juveniles.

.6 Professorships of books and reading.

Lectures. Stimulus and guidance in schools.

.7 Use of reference books.

.8 Aids to readers. Guidance, printed or personal, see also 028.6 and 025.5.

.9 Character of reading in libraries.

029 Literary methods and labor-savers.

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best served by referring to 025 and 028 instead of repeating the heads.

.1 Methods. e. g. Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); coöperative methods; records *vs.* memory, etc.

See 653, abbreviations and shorthand; 154.1, mnemonics; 025.4, classification.

.1 is for what one *learns* how to do by an improved *method.*

.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature.

.2 Appliances. Labor-saving tools and devices. See also 651.

Most literary labor-saving devices go also under 651, Office equipment and methods; and are best kept together there; e. g. all office and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc., cases, see 025.8; for binders, 025.7.

.3 Clippings. Scrapbooks or files. See also Files 651.

.4 Notebooks, notetaking, abstracting, etc.

.5 Indexing. Index rerums. Printed and patent indexes.

For alfabeting and transliteration see 025.3.

.6 Authorship. Writing for press. Copy and proof.

See also 655.25 Proofreading; 655.52 Relations to publishers.

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.9

The Divisions 030–070 below are all subdivided; 1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other.

030 General cyclopedias.

040 General collected essays.

050 General periodicals. Magazines.

060 General societies. Transactions.

e. g. Academies of Paris, Berlin, Vienna, etc.

070 General newspapers. Journalism.

In large collections use geographical divisions under 1, American; 2, English etc., as in 970 and 940–9. Because of large size and very general character, it is better to keep newspapers togetber here than to class with local history of the place where published. They could not go on shelves with ordinary sized books and a reference is made as easily to them under 070 as anywhere.

080 Special libraries. Polygraphy.

090 Book rarities.

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewbere.

091 Manuscripts. Autographs.

Photographs of mss. go with subject rather than here.
For Diplomatics and Palæography, see 417, and under the special languages, 421.9, 431.7, etc.

092 Block books.

093 Early printed books. Incunabula.

094 Rare printing.

Aldines, Elzevirs, Caxtons, etc.; Privately printed books; Unique books.

095 Rare binding.

Noted binders, costly ornament, curious bindings.

096 Rare illustrations or materials.

Illuminated. Illustrated by inserted plates. Printed on vellum, silk, bark etc., in gold or silver letters, etc.

097 Ownership. Book plates. Ex libris.

098 Prohibited. Lost. Imaginary.

099 Other rarities. Curiosa. Minute size, etc.

Philosophy.

100 Philosophy in General.

Works limited to none of the nine Divisions.

101 Utility.

102 Compends, Outlines.

103 Dictionaries, Cyclopedias.

104 Essays, Lectures, Addresses.

105 Periodicals, Philosophical Magazines.

106 Societies, Transactions, etc.

107 Study and Teaching of Philosophy.

108 Polygraphy, Extracts, Maxims, etc.

109 History of Philosophy.

110 Metaphysics.

111 Ontology.

Nature of Being. Substance and Form.

112 Methodology.

Philosophical Classification of Knowledge. Terminology. For Book Classification see 025.4

113 Cosmology.

114 Space.

115 Time.

116 Motion.

117 Matter.

118 Force.

119 Quantity. Number.

120 Other Metaphysical Topics.

121 Theory of Knowledge. Origin. Limits.

122 Causation. Cause and Effect.

123 Liberty and Necessity.

See also 233.7, Freedom; 234.9, Predestination; 159, Will.

124 Teleology. Final Causes.

125 Infinite and Finite.

126 Consciousness. Personality. See 233.6, Doctrine.

127 Unconsciousness. Automata.

128 The Soul. See 218, Natural theology; 237, Future state.

129 Origin of the Individual Soul.

.1 By Special Creation. See 213, Creation.

.2 By Inheritance. Traduction.

See 575.1, Evolution; 136.3, Mental heredity; 233.3, Spiritual heredity.

.3 Pre-existence.

.4 Transmigration. Palingenesis.

.5 Emanation. See also 147, Pantheism; 212, Natural theology.

130 Mind and Body. Anthropology.

131 Mental Physiology and Hygiene.

For influence of mind on body, mind cure, etc., see 615.851; see also 613.8, Hygiene of nervous system.

132 Mental Derangements.

.1 Insanity. See 362.2, Asylums; 920.8, Lives; 616.84, Disease.

.2 Idiocy. See 362.3, Asylums; 920.8, Lives; 371.93, Education.

.3 Hypochondria. Melancholy. See 616.852, Hysteria.

.4 Catalepsy. See 616.852, Hysteria.

.5 Ecstatics.

.6 Kleptomania and other leading to crime.

.7 Dipsomania and other leading to vice.

See also 178, Temperance; 616.861, Alcoholism.

.8 Mnemonic derangements.

Not knowing in one state what passed in another. See 154, Memory.

133 Delusions. Witchcraft. Magic.

.1 Apparitions. Ghosts.

.2 Hallucinations.

.3 Divination. Oracles. Second Sight. Omens. Predictions.

.4 Witchcraft. Sorcery. See 272.8, Persecutions.

.5 Astrology. See also 520.1, Astrology.

.6 Palmistry.

.7 Humbugs. Quackery.

.9 Spiritism. Table-tipping, etc. See also 289.9, Sects.

134 Mesmerism. Animal Magnetism. Clairvoyance.

135 Sleep. Dreams. Somnambulism.

136 Mental Characteristics.

See also 131, Mental physiology.

As Influenced by

.1 Sex. See 376.2, Mental capacity of women.

.2 Physical Surroundings.

See 575.3, Evolution; 573.4, Natural history of man.

.3 Ancestry (Mental Heredity). See 575.1, Evolution; 233.3, Spiritual heredity; 129.2, Origin of soul; 613.92, Hygiene.

.4 Race. Racial Characteristics. See 572, Ethnology.

.5 Age.

.6 Physical Structure and Conditions.

137 Temperaments.

138 Physiognomy.

139 Phrenology. Mental Photographs, etc.

140 Philosophical Systems.

The heads 140–149.9 are for the discussion of the systems as such. The philosophical works of authors of these various schools are classed under 190, not here. From these heads refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system.

141 Idealism. Transcendentalism. e. g. Plato, see 184.1, 884.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36.

142 Critical Philosophy. e. g. Kant, see 193.2.

143 Intuitionalism. e. g. Reid, see 192.5; McCosh, see 191.5.

See also 156, Intuitive faculty; 171.2, Ethics.

144 Empiricism. e. g. Descartes, see 194.1; Bacon, see 192.1.

145 Sensationalism. e. g. Locke, see 192.2.

146 Materialism. Positivism. e. g. Hobbes; Comte, see 194.8.

See also 149.2, Realism.

147 Pantheism. Monism. e. g. Spinoza. See 212, Natural theology.

148 Eclecticism. e. g. Cousin, see 194.7.

149 Other Philosophical Systems.

See 211, Rationalism, Scepticism; 214, Fatalism.

.1 Nominalism.

.2 Realism. See 146, Materialism.

.3 Mysticism. See 273.2, Heresies; 189.5, Medieval philosophy.

.4 Associationalism.

.5 Optimism. Meliorism.

.6 Pessimism. e. g. Schopenhauer, see 193.7.

See also 216, Evil; 233, Doctrine of man.

.7 Agnosticism. See 273.8, Agnostic heresy.

.8 Nihilism.

.9 Other Systems.

150 Mental Faculties. Psychology.

For mind in animals, see 591.51.

151 Intellect. Capacity for Knowing.

.1 Genius.

152 Sense. Sense Perceptions.

Passive or Receptive Faculty.

.1 Vision.

.2 Hearing.

.3 Smell.

.4 Taste.

.5 Touch.

.6 Muscular Sense.

153 Understanding.

Active or Thinking Faculty.

.1 Conception. The Concept or Notion.

.2 Association.

.3 Abstraction.

.4 Reflection.

.5 Judgment.

.6 Reasoning. Induction and Deduction. See 160, Logic.

154 Memory. Reproductive power.

See 132.8, Mnemonic derangements.

.1 Mnemonics.

155 Imagination. Creative Power.

.1 Fancy. Imaging Power.

156 Intuitive Faculty. Reason. For Reasoning, see 153.6.

157 Sensibility. Emotions. Affections.

158 Instincts. Appetites.

159 Will.

160 Logic. Dialectics.

See 153.6, Reasoning power. For logic of chance, see 519, Probabilities.

161 Inductive.

162 Deductive.

163 Assent. Faith. See also 234.2, Doctrinal theology.

164 Symbolic. Algebraic. Logical machines.

Logical topics.

165 Sources of error. Fallacies.

166 Syllogism. Enthymeme.

167 Hypotheses.

168 Argument and persuasion.

169 Analogy. Correspondence. See also 219, Natural theology.

170 Ethics. Theoretical and applied.

Many topics in applied ethics occur also in law, specially in 343, Criminal law. See also 377.2, Ethical education.

.1, ; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies. Society for ethical culture; .7, Study and teaching; .8, Polygraphy; .9, History.

171 Theories. Philosophy of ethics.

.1 Authority. Will of God. Christian.

.2 Intuition. Moral sentiment.

See also 143, Intuitionalism; 156, Intuitive faculty.

.3 Perfection.

.4 Happiness. Hedonism.

.5 Utilitarianism.

.6 Conscience. Casuistry.

.7 Evolutionary or educational.

.8 Altruism.

.9 Egoism.

172 State Ethics.

.1 Individuals and the state. Duties of citizens. Patriotism. See 320, Political science.

.2 Duties of public officers.

.3 Relations to church.

See 261.7, The church; 322, Church and state; 272, Persecutions.

.4 International ethics. Peace and war.

See 341, International law.

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173 Family Ethics.

.1 Marriage and Divorce. See 347.6, Family law.
.2 Polygamy and Monogamy. See 298, Morm
.3 Duties of Husbands and Wives.
.4 Infanticide.
.5 Duties of Parents.
.6 Duties of Children.
.7 Home Life.
.8 Masters and Servants. See 647, Servants; 331, Labor
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174 Professional and Business Ethics.

.1 Clergy.
.2 Physicians.
.3 Lawyers.
.4 Merchants. Business Men.
.5 Speculation.
.6 Gambling. See 175.
.7 Compact. Promise.
.8 Employers and Employed.
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175 Ethics of Amusements. For amusements, see 790.

.1 Public Shows and Diversions. Rinks, Circuses, etc.
.2 Theater. Opera. Private Theatricals.
.3 Dancing. Balls. Round Dances.
.4 Games of Skill. Billiards, Chess, etc.
.5 Games of Chance. Cards, Dice, etc.
.6 Prize Fighting. Animal Fighting. Bull, Dog, Cock, etc.
.7 Racing. Horse. Boat. Pedestrian. Wheel, etc.
.8 Novel Reading.
.9 Betting. Poolselling, See 174.6.

176 Sexual Ethics.

.1 Chastity.
.2 Celibacy. See 254, Celibacy of clergy.
.3 Continence.
.4 Solitary Vice.
.5 Social Evil. See 258, Parish care of fallen.
.6 Adultery.
.7 Immoral Art
.8 Immoral Literature.
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177 Social Ethics.

.1 Courtesy. See Etiquet, 395.
.2 Conversation. Gossip. See also 374.1, Self-culture.
.3 Truth. Slander. Flattery.
.4 Dress. Display. Sumptuary Legislation.
.5 Caste. Class Feeling. Wealth and Rank.
See 294, Brahmanism; 331, Capital and labor.
.6 Friendship. Courtship. Coquetry.
.7 Philanthropy. Humanity.
.8 Solitude vs. Social Obligations.
.9

178 Temperance. Stimulants and Narcotics.

General works on Temperance may be divided by form into .04, Essays; .05, Periodicals; .06, Societies; .07, Teaching; .09, History. See also 613.3, Beverages; 613.8, Nervous system; 331.84, Laboring classes.

.1 Use of Intoxicating Drinks. Beer Drinking. Medicinal Use.
.2 Total Abstinence vs. Temperance.
.3 Social Drinking. Wine at Table. Treating.
.4 Traffic in Intoxicating Drinks. License. High License.
See also 336.27, Taxation.
.5 Prohibition. See 329.81, Prohibition party.
.6 Reformatories. Inebriate Asylums, etc. See 362.
.7 Tobacco.
.8 Opium. Hasheesh. Chloral. Ether and other Drugs.
.9 Gluttony and other Intemperance.

179 Other Ethical Topics.

.1 Morals of the Press. Newspapers.
.2 Cruelty to Children. See 173.4; 331.3, Labor of children.
.3 Cruelty to Animals.
.4 Vivisection. See also 614.22, Vivisection laws.
.5 Oaths.
.6 Heroism. Bravery. Cowardice.
.7 Life. Duelling. Suicide. See 394.8, Customs.
.8 Pride. Covetousness. Envy. Anger. Sloth. Jealousy. Hate, and other Vices.
.9 Humility. Liberality. Gentleness. Patience. Diligence. Charity. Modesty, and other Virtues.

180 Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

181 Oriental Philosophers.

.1 Chinese. Confucius. Mencius.
.2 Egyptian.
.3 Jewish. Kabala. Philo. Maimonides.
.4 Indian. Gymnosophists.
.5 Persian. Sufism.
.6 Chaldæan.
.7 Sabeism.
.8 Phœnician.
.9 Syrian.

182 Early Greek Philosophers.

.1 Ionic. Thales. Anaximander. Anaximenes.
Materialistic. Things are as they seem.
.2 Italic or Pythagorean. Half Idealistic.
.3 Eleatic. Xenophanes. Parmenides. Zeno. Melissus.
Idealistic. Existence denied. Thought is the only reality.
.4 Heraclitus.
.5 Empedocles.
.6 Atomistic.
.7 Democritus.
.8 Anaxagoras.
.9 Other Early Greek.

183 Sophistic and Socratic Philosophers.

.1 Sophistic. Protagoras. Gorgias. Prodicus. Hippias.
.2 Socrates.
.3 Socratic.
.4 Cynic. Antisthenes, Diogenes, Crates, etc.
.5 Cyrenaic. Aristippus, Hegesias, etc.
.6 Megaric. Euclid, Eubulides, Diodorus, etc.
.7 Elian and Eretrian. Phedo, Menedemus, etc.

184 Platonic. Older Academy.

.1 Plato. .2 Speusippus. .3 Xenocrates.

185 Aristotelian. Peripatetic. Lyceum.

.1 Aristotle. .2 Theophrastus. .3 Eudemus. .4 Strato.

186 Pyrrhonist. New Platonist.

.1 Pyrrhonism. Scepticism. Pyrrho, Timon.
.2 New Academy. Arcesilaus, Carneades. Plutarch.
See 888.8.
.3 Eclecticism. Cicero. See 875.4.
.4 Alexandrian. Neo-Platonic. Philo, Plotinus, Proclus, Porphyry, Iamblichus. See 239.4, Apologetics; 273.1.

187 Epicurean. Epicurus. Lucretius. See also 871.1.

188 Stoic.

.1 Zeno.
.2 Cleanthes.
.3 Chrysippus.
.4 Panaetius.
.5 Posidonius.
.6 Seneca. See 878.5; 872.6.
.7 Epictetus.
.8 Marcus Aurelius.

189 Early Christian and Medieval Philosophers.

.1 Gnosticism. See 273.1, Basilides, Marcion. See 273.2, Manicheism.
.2 Patristic. Tertullian. Augustine. Clement. Origen
.3 Arabian. Avicenna, Averroes.
.4 Scholastic. Scotus, Aquinas, Anselm, Abelard.
.5 Mystic. Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme.

190 Modern Philosophers.

See also 921.1 to 921.8, Biography of Philosophy, or lives may be put here with works, with references only under 920, Biography. Philosophical works are put here, not under the School or System to which the author may be thought to belong. See note under 140.

191 American Philosophers.

These numbers may be left blank for future use or used for the well known names among American Philosophical writers given below.

.1 Jonathan Edwards. 1703–1758.
.2 O. A. Brownson. 1803–1876.
.3 Ralph Waldo Emerson. 1803–1882. See 814.36.
.4 Laurens P. Hickock. 1798–1888.
.5 James McCosh. 1811–
.6 Noah Porter. 1811–1892.
.7 Francis Bowen. 1811–1890.
.8 William T. Harris. 1835–
.9 Other American Philosophical Writers.

192 British Philosophers.

.1	Bacon.	1561–1626.	See 144, Empiricism.
.2	Locke.	1632–1704.	See 145, Sensationalism.
.3	Berkeley.	1685–1753.	See 141, Idealism.
.4	Hume.	1711–1776.	See 824.64, English Essays.
.5	Reid.	1710–1796.	See 143, Intuitionalism.
.6	Dugald Stewart.	1753–1828.	
.7	John Stuart Mill.	1806–1873.	
.8	Spencer.	1820–	
.9	Other British Philosophical Writers.		

193 German Philosophers.

.1	Leibnitz.	1646–1716.	
.2	Kant.	1724–1804.	See 142, Critical Philosophy.
.3	Fichte.	1762–1814.	See 141, Idealism.
.4	Schelling.	1775–1854.	
.5	Hegel.	1770–1831.	
.6	Schleiermacher.	1768–1834.	
.7	Schopenhauer.	1788–1860.	See 149.6, Pessimism.
.8	Lotze.	1817–1882.	
.9	Other German Philosophical Writers.		

194 French Philosophers.

.1	Descartes.	1596–1650.	See 144, Empiricism.
.2	Malebranche.	1638–1715.	
.3	Condillac.	1715–1780.	
.4	Rousseau.	1712–1778.	
.5	Diderot.	1713–1784.	
.6	Lamennais.	1782–1854.	
.7	Cousin.	1792–1867.	See 148, Eclecticism.
.8	Comte.	1798–1857.	See 146, Positivism.
.9	Other French Philosophical Writers.		

195 Italian Philosophers.

196 Spanish Philosophers.

197 Slavic Philosophers.

198 Scandinavian Philosophers.

199 Other Modern Philosophers.

The heads of 180–199 are for discussions of the systems of these men and for their philosophical works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and 5, where their works are more useful than in 184–5 because of their classical prominence

Religion

200 Religion General works.

201 Philosophy. Theories. Methods.

202 Compends. Outlines. Systems.

203 Dictionaries. Cyclopedias.

204 Essays. Lectures. Disputations. Addresses.
See 252, Sermons.

205 Periodicals. Magazines. Reviews.

206 Societies. Transactions. Reports, etc.
General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject.

207 Education. Theological seminaries. Training schools. Divided like 940–99.

208 Polygraphy. Collected works. Extracts, etc.
Many collections go under a more specific head; e. g. 240.

209 History of religion.

210 Natural theology.

211 Deism and atheism.
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273.8, Agnostic heresy; 149.7, Agnosticism.

212 Pantheism. Theosophy. See 147, Pantheism; 129.5, Origin of soul.

213 Creation. See 113, Cosmology. Evolution. See 575, Science.

214 Providence. See 231.5, Doctrines. Theodicy. See 231.8, for Christian view.

215 Religion and science. See 239.8, Apologetics.

216 Evil. Depravity. See 149.6, Pessimism; 233.2, Sin.

217 Prayer. Prayer gauge. See 264.1, Prayer; 248, Personal religion.

218 Future life. Immortality. Eternity.
See 237, Future state; 128, The soul.

219 Analogies. Correspondences. See also 169, Logic.

220 Bible. General works.

For similar works limited to Old or New Testament, or individual books, see specific head below.

.1 **Canon. Inspiration. Prophecy.**

.2 **Concordances. Analyses.**

.3 **Dictionaries. Cyclopedias.**

.4 **Original texts and early versions. Codices.**

Heads for both old and new testaments are given, as they are also used for 221 and 225.

.42, Chaldee; .43, Syriac; .44, Hebrew; .45, Samaritan; .46, Other Semitic. Ethiopic, Arabic, etc.; .47, Latin. Itala. Vulgate; .48, Greek. Septuagint Aquila. Symmachus. Theodotion. Hexapla; .49, Other early versions. Armenian. Coptic, Gothic, etc. 220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7, with reference from 220.44.

.5 **Versions of Bible. Polyglots.** Divide by languages, like 400.

These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43.

.6 **Hermeneutics. Exegesis. Symbolism. Typology.**

.7 **Commentaries on whole Bible, and annotated editions.**

For Notes, etc., on Portions of the Bible, see the most specific head in 221-229.

.8 **Special topics.**

Divided like General Classification; e. g. Natural Science of the Bible in 220.85.

.9 **Biblical Geography and History.**

.91, Biblical geography, description, etc.; (see 915.69, 913.33, Palestine); .92, Scriptural biography, (see also 922.1; 232.9, Lives of Christ); .93, Antiquities, archæology; (see also 296, Jewish religion; 933, History of Jews); .94, Chronology; .95, History, see 933, Jews.

221 Old Testament. Texts. Introductions, etc.

Divided like 220, e. g. 221.7. Commentaries on O. T.

222 Historical books.

.1 **Pentateuch.**

.11, Genesis; .12, Exodus; .13, Leviticus; .14, Numbers; .15, Deuteronomy; .16, Decalogue.

.2 **Joshua.**

.3 **Judges and Ruth.**

.4 **Samuel.**

.5 **Kings.**

.6 **Chronicles.**

.7 **Ezra.**

.8 **Nehemiah.**

.9 **Esther.**

223 Poetical books.

.1 **Job.**

.2 **Psalms.**

.3 **Authorship and Chronology.**

.4 **Special groups.**

Messianic; Greater Hallel; Lesser Hallel; Vesper Psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic Five Books, Ps. 1-41; 42-72; 73-89; 90-106; 107-150.

.5 **Liturgic use by Christians.**

See 264.038, Anglican psalter; 245, Hymnology.

.6 **Commentaries on Psalms.**

.7 **Proverbs.**

.8 **Ecclesiastes.**

.9 **Song of Solomon or Canticles.**

224 Prophetical Books.

.1 **Isaiah.**

.2 **Jeremiah.**

.3 **Lamentations.**

.4 **Ezekiel.**

.5 **Daniel.**

.6 **Hosea.**

.7 **Joel.**

.8 **Amos.**

.9 **Other Minor Prophets.**

.91 Obadiah.

.92 Jonah.

.93 Micah.

.94 Nahum.

.95 Habakkuk.

.96 Zephaniah.

.97 Haggai.

.98 Zechariah.

.99 Malachi.

225 New Testament. Texts, Introductions, etc.

Divided like 220.

226 Gospels and Acts.

.1 **Harmonies.**

.2 **Matthew.**

.3 **Mark.**

.4 **Luke.**

.5 **John.**

.6 **Acts of the Apostles.**

.7 **Miracles.**

.8 **Parables.**

.9 **Lord's prayer.**

227 Epistles.

.1 **Romans.**

.2 **1 Corinthians.**

.3 **2 Corinthians.**

.4 **Galatians.**

.5 **Ephesians.**

.6 **Philippians.**

.7 **Colossians.**

227.8 Other Pauline Epistles.

.81 1 Thessalonians.
.82 2 Thessalonians.
.83 1 Timothy.
.84 2 Timothy.
.85 Titus.
.86 Philemon.
.87 Hebrews.

.9 Catholic Epistles.

.91 James.
.92 1 Peter.
.93 2 Peter.
.94 1 John.
.95 2 John.
.96 3 John.
.97 Jude.

228 Apocalypse.

229 Apocrypha.

.1 Esdras 1, 2.
.2 Tobit, Judith, Esther.
.3 Wisdom.
.4 Ecclesiasticus.
.5 Baruch, Epistle of Jeremy, Song of the three Children.
.6 Story of Susanna, History of Bel and the Dragon, Prayer of Manasses.
.7 Maccabees 1, 2, 3,4.
.8 Pseudo Gospels.
.9 Apostolic Epistles and Canons. Clementines. See 281.1.

230 Doctrinal. Dogmatics. Theology.

General Doctrinal Works may be subdivided by churches like 280–289. See 252.3.

231 God. Unity. Trinity.

.1 God the Father, Creator.
.2 God the Son, Redeemer.
.3 God the Holy Ghost, Giver of Life, Sanctifier.
.4 Divine Attributes. Omniscience, Omnipresence, Omnipotence.
.5 Divine Providence. See 214.
.6 Divine Love and Wisdom.
.7 Divine Law and Miracles.
.8 Theodicy. Vindication of God's justice in permitting evil. See also 214, Nat. theology.
.9

232 Christology.

.1 Incarnation. Messiah.
.2 Logos, the Word of God.
.3 Atonement.
.4 Sacrifice.
.5 Resurrection.
.6 Second Coming. See also 289.3, Second Adventists.
.7 Judgment.
.8 Divine Humanity.
.9 Lives of Christ.

233 Man.

.1 The Fall.
.2 Sin.
.3 Moral and Spiritual Heredity. See Biology, 575.1, 130.3, 129.2
.4 Accountability.
.5 Natural and Spiritual Body.
.6 Personality. See 126, Metaphysics.
.7 Freedom. See 234.9; 123; 159.
.8
.9

234 Salvation. Soteriology.

.1 Grace.
.2 Faith.
.3 Redemption.
.4 Regeneration.
.5 Repentance.
.6 Obedience.
.7 Justification.
.8 Sanctification.
.9 Predestination and Freewill. See 233.7; 123; 159.

235 Angels. Devils. Satan.

236 Eschatology. Last Things.

.1 Death.

.2

.3 Millennium.

.4 Intermediate State. Sheol. Hades.

.5 Purgatory.

.6 Paradise. Limbus patrum.

.7 Limbo. Limbus infantum.

.8 Resurrection.

.9 Judgment. See 232.7, Christology.

237 Future State. See 218, Natural theology.

.1 Eternity.

.2 Immortality.

.3 Conditional Immortality.

.4 Heaven.

.5 Hell. Gehenna.

.6 Retribution. Future Punishment.

.7 Eternal Punishment. See 289.1, Universalists.

238 Creeds. Confessions. Covenants. Catechisms

Divided more closely if wished like 280–289: e. g. 238.19, Greek church.

.1 Apostles', Nicene, and Athanasian Creeds.

.2 Creed of Pius IV. (Trent); and later Roman.

.3 Anglican. 39 Articles, A. D. 1551. See 204.037, Liturgy.

.4 Continental Prot. Lutheran. Calvinist. Dort.

.5 Westminster. Saybrook. Cong'l. Cambridge. Savoy.

.6–9 Of other Sects. Divided like 286–289.

239 Apologetics. Evidences of Christianity.

If preferred, courses of Apologetic lectures may be kept together; e. g. 239.01, Bampton; .02, Boyle; .03, Hulsean; .04, Bohlen; .05, Paddock; .08, Miscellaneous. More usefully each book is classed under the most specific head that will contain it.

.1 Apostolic Age.

.2 Against the Jews.

.3 Against the Heathen.

.4 Against the Neo-Platonists. See 273.1, Gnostic heresy.

.5 Against the English and Scotch Deists. See 211, Deism.

.6 Against the French Encyclopedists.

.7 Against the Rationalists.

See 211, Natural theology; 273.8, Agnostic heresy; 149.7, Agnosticism.

.8 Against the Scientists. For non-Christian view, see 215.

.9 Other Special Denials.

240 Devotional. Practical.

241 Didactic. For Catechisms, see 238.

242 Meditative. Contemplative. See 248, Personal religion.

.1 Thomas à Kempis.

243 Hortatory. Evangelistic.

244 Miscellany. Religious novels, Sunday-school books, allegories, etc.

But class Bunyan in 823.42, because of his literary prominence.

245 Hymnology. Religious poetry.

See 223.5, Psalms; 264.038, Psalter.

Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked.

246 Ecclesiology. Symbolism. Religious art.

246-7 cover religious bearings. For art side see 700.

.1 Byzantine and Gothic ecclesiology.

See 723, Mediæval architecture; 726, Religious architecture.

.2 Primitive church and heathen art.

.3 Images in churches. Iconoclasts.

.4 Protestantism and religious art.

.5 Emblematic and cryptographic art. Catacomb symbols.

.6 Liturgic symbolism. Altar. Colors. Lights.

See 264, Public worship.

.7 Evangelistic use of music and art, pictorial and plastic. Della Robbias.

.8 Eucharistic music. Ambrose. Gregory the Great. Later development. See 783, Sacred music; 264.2, Public worship.

.9

247 Sacred furniture. Vestments. Vessels. Ornaments, etc.

.1 Font. Baptistery. Lectern. Pulpit.

.2 Tabernacle. Rood screen. Reredos.

.3 Sculpture and mortuary design.

See 718, Monuments; 726.8, Mortuary buildings; 730, Sculpture.

.4 Illumination. Mosaics. Enamels. Stained glass.

See 745, Ornamental design; 748, Stained glass.

.5 Fresco and religious painting. See 750, Painting.

.6 Pallium. Mitre. Crozier. Ring.

.7 Vestments and altar cloths.

.8 Eucharistic vessels. See 265.3, Sacraments.

.9 Ornaments, etc. Crucifix. Banners. Thurible. Incense.

248 Personal religion. Asceticism. See also 273.2, Ascetic heresy.

249 Family devotions. See 264, Public worship.

250 Homiletic. Pastoral. Parochial.

251 Homiletics. Preaching. See 264.6, Public worship.
Divided like 252, for matter *about* special kinds of sermons.

252 Sermons.
The collected sermons on various topics under 252 are divided by churches and sects, like 280. The sermons on specific topics are more useful, like other pamphlets, classed with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, in 331.89. The nine heads below are for collections and cross references, but can be used for separate sermons if the classifier prefers.

.1 Episcopal charges. Pastorals.
.2 Controversial. Polemic.
.3 Doctrinal. Dogmatic. See also 230, Dogmatics.
.4 Practical. Devotional.
.5 Academic. Educational. See also 378.7, Baccalaureates.
.6 Political. Public occasions and duties.
.7 Consecration. Ordination.
See also 265.4, Ordination; 265.9, Consecration; 262.16, Polity.
.8 Expository.
.9 Memorial. Obituary. Biographical. Historical.
The memorial of a special church goes with that church in 280. See 920, Biography.

253 Pastoral visitations, evangelistic.

254 Clerical support. Celibacy.
See also 176.2, Sexual ethics; 248, Asceticism; 613.89, Hygiene.

255 Brotherhoods. Sisterhoods.
In the parish. For Monastic orders, see 271.

256 Societies for parish work. Guilds. Sodalities.
Local societies. Discussion of desirability of such work. For general societies see 206 and 267.

257 Parochial schools. Libraries, etc.
See 377.5, Education; 027.8, Parish libraries.

258 Parish care of sick, fallen, etc.
See 265.8, Ministry of sick; 176.5, Social evil.

259 Other ministrations and work.

260 Church. Institutions and work.

261 The church. Its influence on morals, civilization, etc.
.1
.2
.3 Church vs. barbarism.
.4 Church and morals.
.5 Church and intellectual development. See 377.8, Education.
.6 Church and civilization.
.7 Church and civil government. See 172.3, State ethics; 322, Church and state.
.8 National churches vs. organic unity.
.9

262 Ecclesiastical polity.
.1 Ministry.
.11 Apostolic succession.
.12 Episcopate.
.13 Papacy. Primacy. Papal supremacy; infallibility, 18 July 1870.
.14 Priest. Presbyter. Minister. Lay ministry.
.15 Deacon. Deaconess. Evangelist.
.16 Orders. Ordination. See 265.4, Sacraments; 252.7, Sermons.
.17 Episcopal.
.18 Presbyterian.
.19 Congregational.
.2 Parish. Congregation. See 250 for Parochial work.
.3 See. Diocese. Cathedral system.
.4 Council. Synod. Presbytery. Congregation. Convention.
Polity only, here. Proceedings go with churches, 281-9.
.5 General or œcumenical council. See also 270.2.
.6 Canons. Decrees.
.7 Traditions.
.8 Authority. Church and ministerial. Private judgment.
.9 Discipline. Courts. Trials. For Canon law see 348.

263 Sabbath. Lord's day. Sunday.
.1 Hebraic sabbath.
.2 Modern sabbath. Seventh day.
.3 Lord's day. Christian Sunday.
.4 Sunday observance.
.5 Work.
.6 Amusement.
.7 Opening libraries and museums.
See also 024.4, Library rules.
.8 Sunday laws.
.9

264 Public worship. Divine service. Ritual.
See also 246, Ecclesiology; 247, Sacred furniture. General works are divided by Churches like 280. Under various Churches the services may be further divided, as, e. g.
.03 Anglican and American P. E. ritual.
.031 Calendar. Festivals and fasts. See also 529.6, Chronology.
.032 Lectionary and rubrics.
.033 Morning prayer. Litany.
.034 Evening prayer. Vespers. Compline.
.035 Sacraments, ordinances, and services. See also 265, Sacraments.
.036 Collects, epistles and gospels.
.037 Ordinal. Articles. Creeds. See also 238.3, Creeds, doctrines.
.038 Psalter and other. See 223.5, Psalms; 245, Hymnology.
.039 History of successive prayer books.

264.1 **Prayer. Extempore. Liturgic.**
See also 248–249, Private and Family Prayer.

.2 **Music. Singing. Instrumental. Praise Meeting.**
See also 783, Sacred Music; 246.7, 246.8, Ecclesiology.

.3 **Scripture Readings.**

.4 **Antiphonal or Responsive Readings.**

.5 **Confessions of Faith. Creeds.** See also 238, Creeds.

.6 **Sermons. Exhortations. Instructions.**
See also 251 and 252, Preaching and Sermons.

.7 **Prayer and Conference Meetings.**

.8 **Class and Covenant Meetings. Love Feasts.**

.9 **Sacramentals.** See also 265, Sacraments.

265 Sacraments. Ordinances.

.1 **Baptism.**

.2 **Confirmation. Church Fellowship.**

.3 **Eucharist. Holy Communion. Sacrifice.**

.4 **Holy Orders. Ordination.** See also 262.16, Ministry; 252.7, Sermons.

.5 **Marriage.** See 173, Ethics of the Family.

.6 **Penance. Confession. Absolution.**

.7 **Extreme Unction. Viaticum.**

.8 **Ministry of Sick and Dead. Faith Cure. Healing. Burial.**

.9 **Consecration. Dedication.** See 262.16, Ordination; 252.7, Sermons.

266 Missions. Home and Foreign.

Subdivided by Churches, like 280. See also 377.6, Missionary schools.
Missions in special countries or places, including those of all churches, go under the geographically divided Religious History, 274–279, with references under 266.

267 Associations.

General societies demanding of members active personal work. For local societies see 256. For Bible, tract, and similar general societies see 206.

.1 Religious societies of both men and women.

.11 U. S. Christian commission.

.15 Salvation army.

.2 Religious societies of men.

For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies, 207; Bible societies, 206.

.21 17th century or earlier. } May be divided by countries like 940–99.

.22 18th century. }

.23 19th century; inter- and undenominational.

.231 In educational institutions. Divided like 940–99. If preferred, cancel .231 and put all together in .234-9. For work of Y. M. C. A. see 267.361.

.232 "Nasmith" societies.

.233 Young men's Christian unions; i. e. not "evangelical," etc.

.234–.239 Others. Divided like 940–99.

.24 19th century; denominational.

.241 In educational institutions. Divided like 282–289. If preferred, cancel .241 and put all together in .242–9. For work of Y. M. C. A. see 267.361.

.242–.249 Others. Divided like 282–289.

.3 Young Men's Christian Associations.

Active membership confined to members of "evangelical" churches.
To shorten the number, X may be used for 267.3 throughout; i. e. X 19 would mean "Work in small towns."

267.31 **Objects, field and extension.**

.311 Need and objects.

.312 Limits; — for and by young men and distinctively religious.

.313 Relation to the church.

.314 International work. } Methods only. For history, reports and periodicals see 267.39; for secretaries see 267.341.

.315 National work.

.316 State work.

.317 District work.

.318 Work in towns able to support a general secretary.

.319 Work in small towns.

.32 **Buildings.** See library buildings 022.

.321 Location. Provision for growth.

.322 Materials and protection against fire.

.323 Plans. Number, size and arrangement of rooms.

.324 Reception, social rooms and parlors.

.325 Library. Reading, lecture, and class rooms. See 022.

.326 Administration and special rooms. Boys' rooms.

.327 Physical culture rooms.

.328 Lighting, heating, and ventilation.

.329 Fixtures, furniture, and fittings.

.33 **Organization.**

.331 Incorporation. Constitution and by-laws.

.332 Branches and sub-organizations. Including women's work for young men.

.333 Managers. Officers serving without pay.
1, Trustees (in charge of real estate).
2, Directors.
3, President.
4, Treasurer.
5, Recording secretary.
6. Executive or Corresponding secretary.

.334 Standing committees.
1, Importance; enlistment and composition.
2, Principles and methods of organization.
3, Names and duties. See also Department work 267.35.

.335 Membership.
1, Membership committee.
2, Classes of membership.
3, Securing and retaining members.
4, Development of active members.
5, Associate membership and its relations.
For members' meeting see Social work, 267.3544.

.34 **Salaried officers. Duties, qualifications, training.**

.341 General secretary and assistants. Including international and state secretaries. See also 267.314–.316.
1, Office and work.
2, Qualifications.
3, Relationship: 31, To churches and pastors: 32, To officers, directors, and committees; 33, To other employees; 34, To the members; 35, To the religious work; 36, To the business community; 37, To his fellow secretaries.
4, Personal hints: 41, considering a call and beginning work; 42, Spiritual and intellectual growth and health; 43, Office work, system, and economy; 44, Personal appearance and conversation; 45, Ladies' company; 46, "Secretarialism."

267.342 Librarian and assistants. May be divided like 267.341. See also Library administration, 025 and 267.3532.

·343 Physical director and assistants. May be divided like 267.341. See also 267.355 and 613.7.

·344 Other salaried officers.

·345 Training; need and methods, demand and supply.

·346 Training schools.

·347 Training by apprenticeship.

·348 Institutes. } Methods only; for reports see 267.39.

·349 Conferences. }

·35 **Local work by departments.**

·351 Business department.
1, Finance committee.
2, Annual budget.
3, Endowments and other sources of income.
4, Solicitation, collection and disbursement.
5, Financial book-keeping.
6, Debt, taxes, &c.
7, Records and statistics.
8, Advertising, including anniversaries and parlor conferences.
9, Printed matter. Including bulletin, prospectus, etc.

·352 Religious department.
1, Committees.
2, Individual Bible study. Methods and helps.
3, Bible classes.
4, Training classes. Personal work.
5, Bible readings. Song services.
6, Evangelistic meetings.
7, Social religious meetings.
8, Other meetings in the rooms.
9. Work outside the rooms. In public institutions, sermons to young men, distribution of religious papers, invitations, etc.

·353 Educational department.
1, Committees.
2, Library. See 267.342 and 025.
3, Reading room.
4, Classes.
5, Lectures and talks.
6, Literary societies.

·354 Social department.
1, Committees.
2, Reception committee.
3, Social rooms and fittings. See 267.32.
4, Receptions. Socials. Entertainments.
5, Music.
6, Amusements. Including games of skill. See also 794.

267.355 Physical department.
1, Committees.
2, Aim and benefit of department. For Physical director see 267.343; Equipment, methods, etc., 613.7.

·356 Information, relief, etc., department.
1, Boarding house bureaus.
2, Employment bureau.
3, Savings bureau.
4, Visitation of sick.
5, Destitute young men.

·357 Boys' department.
1, Committees.
2, Religious work.
3, Educational work.
4, Social work.
5, Physical work.
6, Information, relief, etc.

·358

·359 Janitor's department. Building; care, cleaning, safety. Police.

·36 **Work among special classes.**
Y. M. C. A. only; other religious societies of men go in 267.2.

·361 College and school.
1, History and methods in general.
2, International reports. Including Northfield meetings.
3, International periodicals.
For state and sectional reports and periodicals see 267.39.

·362 Railroad employes.
1, History and methods in general.
2, International reports.

·363 Commercial travelers.

·364 Foreign-speaking. Divided like 400; e. g. 3, German, 4, French, 5, Italian, etc.

·365 Colored men.

·366 American Indians.

·367 Soldiers. U. S. Christian commission, 267.11.

·368 Sailors.

·369 Other. Policemen, firemen, fishermen, lumbermen, mutes, etc.

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·39 **History, reports, periodicals, etc.** For methods see 267.314–.319.

·391 International history.

·392 International reports, etc. } Reports, etc., of international college and railroad work go in 267.361–.362.
1, Reports.
2, Other pamphlets.

·393 International periodicals. International college periodicals, 267.3613.

·394–.399 Divided like 940–999.

267.4 **Religious societies of women.**

.41

.42

.43 10th century; inter- and undenominational

.431

.432 Women's Christian associations.

Divided like 267.3. To shorten the number, W may be used for 267.432 throughout; e. g. W 1 would mean "Objects, field and extension."

.433 King's daughters.

.44 19th century; denominational. Divided like 282–289.

.5 **Young Women's Christian Associations.** Active membership confined to members of "evangelical" churches.

Divided like 267.3–.399.

To shorten the number Y may be used for 267.5; e. g. Y 3, Organization, instead of 267.53.

.6 Religious societies of young people. For Sunday schools see 268.

.61 Inter- and undenominational.

.611

.612

.613 Young people's society of Christian endeavor.

1, Reports, etc.

2, Periodicals.

.62 Denominational. Divided like 282–289.

.7 **Religious societies of boys.** Not Y. M. C. A. Divided like 267.6.

.8 **Religious societies of girls.** Not Y. W. C. A. Divided like 267.6.

9.

268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

Ancient Period. To Conversion of Germans.

See 281.1–281.4, for collected works of early theological writers, etc. 270 is for religious history of these *periods*.

For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2.

.1 **Apostolic. Nativity to Constantine.**

.2 **Period of Œcumenical Councils. Centralization. A. D. 325-787.**

The Greek Church acknowledges these seven Councils as really Œcumenical. Anglicans generally recognize only the first six. See also 262.5, Polity.

.21	First of Nice,	A. D. 325.
.22	First of Constantinople,	381.
23	First of Ephesus,	431.
.24	Chalcedon,	451.
.25	Second of Constantinople,	533.
.26	Third of Constantinople,	681.
.27	Second of Nice,	787.

Mediæval Period. Charlemagne to Luther.

270.3 **Charlemagne. Papacy vs. Empire. A. D. 787–1054.**

Church planted among the Germans. Feudalism. Great schism, east *vs.* west, 1054.

.4 **Hildebrand. Roman Supremacy. A. D. 1054–1200.**

Temporal Power. Scholasticism. First three Crusades.

.5 **Later Mediæval. Renaissance. A. D. 1200–1517.**

Innocent III. Papal Schism. Avignon. Nominalism *vs.* Realism. Greek Church under Moslems. Education. Arts. Inventions. Pre-Reformation.

Modern Period. Reformation to present.

From A. D. 1517, Theology in Europe is in three types, viz: Roman, Lutheran, and Reformed or Calvinistic.

.6 **Reformation. Counter-Reformation. A. D. 1517–1648.**

Council of Trent, A. D. 1545–63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious Wars. Jesuit Missions in East. See also Reformation in England, etc., 274.2.

.7 **Peace of Westphalia to French Revolution. A. D. 1648–1789.**

Union of Church and State. Deism. Materialism.

.8 **Modern. Rationalistic. A. D. 1789–**

Holy Alliance. Greek Church in Russia. Atheism. Pantheism. Protestant Missions.

271 Monastic Orders.

See also 255, Brotherhoods; 377.3, Monastic schools.

.1	**Benedictines.**	Founded A. D.	529.
.2	**Dominicans.**	" "	1170.
.3	**Franciscans.**	" "	1182.
.4	**Augustinians.**	" "	1256.
.5	**Jesuits.**	" "	1540.

.6 **Passionists.** 1720. **Redemptorists.** 1732.

.7 **Lesser Roman Orders.**

.71 Carthusians. Founded A. D. 1086.

.72 Cistercians. " " 1098.

.73 Carmelites. 12th Century.

.74 Trappists. 1150. Capuchins. 1525.

.75 Sulpicians. 1642.

.76 Oblates.

.77 Lazarists. 1624.

.78 Christian Brothers. 18th Century. De la Salle.

.79 Other Lesser Roman Orders.

.8 **Anglican Brotherhoods.**

.9 **Sisterhoods.**

.91	Sisters of Charity. Vincent de Paul.	Founded A. D.	1629.
.92	Sisters of Mercy. Augustinian.	" "	1831.
.93	Ladies of the Sacred Heart. Jesuit	" "	1800.

.94 Sœurs de bon Secours. Nurses.

.95 Little Sisters of the Poor.

.96 Contemplative. Cloistered Nuns.

.97 Other Roman Sisterhoods.

.971 Carmelites.

.972 Second of St. Dominick.

.973 Franciscans.

.974	Ursulines.	A. D. 1537.
.975	Of the Visitation.	" 1610.
.976	Of St. Joseph.	" 1650.
.977	Of the Presentation.	" 1777.

.98 Anglican Sisterhoods.

.99 Other Protestant Orders. Deaconesses. (Kaiserwerth.)

272 Persecutions.

.1 Apostolic Church by Imperial Rome. 1st to 4th Century.

.2 Heretics, by Inquisition or Holy Office. Since 1470. ,,

.3 Waldenses and Albigenses. 11th and 12th Cent. By R.Ch.
See also 284.4, Protestant sects.

.4 Huguenots. French Protestants. St. Bartholomew, 1572. Edict Nantes, 1598, Revocation, 1685. By Rom. Ch.
See also 284.5, Protestant sects.

.5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A. D. 1709. By Roman Catholics.
See also 273.7, Heresies.

.6 Marian. Anglican Reformers by Mary. A. D. 1553–8. ,,

.7 Elizabethan. Later 16th Century. Rom. Ch. by Anglicans.

.8 Quakers. Baptists. Witches. Later 17th Cty. By Puritans.
See also 133.4, Witchcraft.

.9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230–239, Doctrinal Theology.

.1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.
See also 189.1, Gnostic philosophy; 186.4, Neo-Platonism; 239.4, Apologetics.

.2 Manichæism.—Parsee Dualism. Opposition of Good and Evil. Mystic. Ascetic. 3d Century.
See 149.3, Mysticism; 248, Asceticism.

.3 Sabellian.—That the Trinity is not of persons, but of successive manifestations. About 250 A. D. (Held by Schleiermacher, Bushnell, Swedenborg.)

.4 Arian.—Denying Divinity of Christ. 4th Century.

.5 Pelagian.—Denying Original Sin and Supernatural Grace. 5th Century.

.6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.

.7 Molinist and Jansenist. Pietists. Port Royal.—Augustine's doctrine of Grace, vs. the Roman doctrine of Good Works. A. D. 1580–1700.

.8 Agnostic.—Denying possibility of Revelation. Holding that Theology and the Supernatural lie without the domain of Human Knowledge.
See also 149.7, Philosophy; 211, Atheism; 239, Apologetics.

.9 Minor Heresies.

274 to 279 General Religious History. By Countries.

274–279 is divided geographically like 940–999.

280 Christian Churches and Sects.

281–289.8 may be subdivided where needed like 940–999.

281 Primitive and Oriental Churches.

See also 270.1 to 270.3, Early Religious History.

.1 Apostolic Church, to time of Great Schism, A. D. 1054.
Works of Apostolic and Christian Fathers here; use 270 for religious history of these periods. See also 229.9, Apocryphal books.

.2 Primitive Apostolic, to end of First Century.

.3 Ante-Nicene, A. D. 100–325. See also 270.1.

.4 Post-Nicene, A. D. 325–1054. See also 270.2–3.

.5 Oriental Churches.

.6 Armenian.

.7 Coptic.

.8 Nestorian.

.9 Eastern or Græco-Russian or Holy Orthodox Church.
The Great Schism, Mutual Ex-communication, A. D. 1054, separates the Catholic Church into Eastern and Western Churches, which from this time have separate histories.

282 Western or Roman Catholic Church.

Divided geographically like 940–999.

283 Anglican and American P. E. Church.

Divided geographically, when needed, like 940–999; e. g. the Anglican Church in Australia is 283.94; India, 283.54.

284 Continental Protestant Sects. Protestantism.

.1 Lutheran. Reformed. See also 285.7, Reformed church in America.

.2 Calvinist; Zwinglian. See 285, and 286.1.

.3 Hussites. Anabaptists. Leyden. See 286.1.

.4 Albigenses. Waldenses. Vaudois. See 272.3.

.5 Huguenots. See 272.4.

.6 Moravian.

.7 Scandinavian. Swedish.

.8 Old Catholic.
Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.

.9 Other.

285 Presbyterian. Reformed. Congregational.

.1 Presbyterian Church in America.

.2 Presbyterian Church in Great Britain.

.3 Cumberland Presbyterian.

.4 United Presbyterian.

.5 Reformed Presbyterian.

.6 Minor Presbyterian Sects.

.7 Reformed (Dutch) Church in America. e. g. 285.77471, in N. Y. City

.8 Congregational.

.9 Puritanism.

286 Baptist.

.1 Calvinistic. .2 Free Will. .3 Seventh Day.

287 Methodist.

.1 Wesleyan Methodist.
.2 Calvinistic Methodist.
.3 Welsh Calvinistic Methodist.
.4 Primitive Methodist.
.5 Primitive Wesleyan.
.6 Methodist Episcopal.
.7 Protestant Methodist.
.8 African Methodist.
.9 Minor Methodist Sects.

288 Unitarian. See 273.4.

289 Minor Christian Sects.

.1 Universalist.
.2 Campbellite or Christian. Disciples.
.3 Adventist. See also 232.6, Second coming of Christ.
.4 New Church or Swedenborgian.
.5 Catholic Apostolic.
.6 Quakers. Friends. Hicksites.
.7 Mennonite.
.8 Shaker. Mystic.
.9 Other Minor Christian Sects.

290 Ethnic. Non-Christian.

291 Comparative and General Mythology.

292 Greek and Roman Mythology.

293 Teutonic and Northern Mythology.

294 Brahmanism. Buddhism. For other Indic Religions, see 299.11.
See also 891.2, Sanskrit literature; 177.5, Caste.

295 Parseeism. Zend Avesta. For other Iranic Religions, see 299.15.
See also 891.52, Zend literature.

296 Judaism. For other Semitic Religions, see 299.2.

297 Mohammedanism.

298 Mormonism. See 173.2, Polygamy.

299 Minor Non-Christian Religions.
Subdivided ethnically like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158.

Sociology.

300 Sociology in General.

301–309 all have Sociology in General as their subject, but it is treated in these various forms. A periodical on Education goes 370.5, not 305, which is only for periodicals on Sociology in General. In Sociology, most works in these forms are limited to one Division; e. g. to Political Economy, Education, Law, etc. All these have the same subdivision of General Works; i. e. Essays on the various divisions are 310.4, 320.4, 330.4, and so on to Essays on Manners and Customs in General, 390.4. A Zero in any class number shows the subject to be general, not specific.

301 Philosophy. Theories.
See Philosophy of History, 901.

302 Compends, Outlines.

303 Dictionaries, Cyclopedias, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 370.

308 Polygraphy, Collected Works, Extracts, etc.
Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of Social Science.

310 Statistics.

311 Theory, Methods. Science of.

312 Population. Progress of. Vital Statistics. Births. Deaths. Mortality. Longevity.
See also 614.1, Registration and vital statistics.
Statistics are divided geographically like 930–999; e. g. Population of Maine is 312.741.

313 Special Topics.

314 to 319 General Statistics. Divided geographically like 940–999.
The Statistics of any special matter are put with the subject, e. g. of Domestic Animals in 636, of Short Hand in 653, of French Novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. The Statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i. e., the Topic outranks the Locality.

320 Political science.

.1, Theory of the state; .2, Compends, statecraft; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History of political science, divided like 930-999.

321 Form of state.

This is for discussion of form of state, what should be; for what is, see 342, Constitution law and 353-354, Administration.

- .1 Family. Patriarchal age.
- .2 Tribes. Clans. Marks. Village communities.
- .3 Feudalism.
- .4 Democracy. Pure; e. g. Athens, Town meeting.
- .5 Aristocracy. e. g. Italian republics. Mediæval German cities.
- .6 Absolute monarchy.
- .7 Constitutional monarchy.
- .8 Republic. Modern democracy, delegated powers.

322 Church and state. See also 172.3, State ethics; 261.7, The church.

323 Internal or domestic relations.

Free speech, Liberty of the press; see also 070, Newspapers; 179.1, Morals of the press.

324 Suffrage.

- .1 Qualifications. Age. Property. Education. Color. Race, etc. See also 325.1, Naturalization.
- .2 Forms of suffrage. Universal. Limited. Minority representation. Class system. Cumulative, etc.
- .3 Woman suffrage. See also 396.3, Woman; 329.83, Woman suffrage party.
- .4-9 In special countries. Divided like 940-999.

325 Colonies and immigration.

- .1 Immigrants and naturalization.
- .2 Emigrants. Divided by countries like 930-999.
- .3 Colonization. Divided by country like 940-999.
- .4-9 In special countries. Divided like 940-999, by country in which planted.

326 Slavery. See also 973.7, Civil war; 371.94, Education of freedmen.

- .1 Slave trade.
- .2 Coolies and contract slaves.
- 3 Serfs and serfdom.
- .4 Anti-slavery documents.
- .5 " periodicals.
- .6 " societies.
- .7 Pro-slavery.
- .8 Emancipation and freedom.
- .9 History of slavery. Divided geographically like 930-999.
- .92 Biography of slaves.

327 Foreign relations. Divided geographically like 930-999.

328 Legislative bodies and annals.

- .1 Parliamentary law.
- .2
- .3
- .4-9 Of special countries.

Divided by countries like 940-999, and under each, works may be divided: .1, Journals: .2, Debates; .3, Abstracts; .4, Documents; .5, Rules; .8, Legislative manuals; .9, History of bodies.

329 Political parties. Party conventions.

329.01, U. S. presidential campaign documents of all parties, arranged by campaigns.

- .1 Federal.
- .2 Anti-Federal.
- .3 Democratic.
- .4 Whig.
- .5 American. Know-nothing.
- .6 Republican.
- .7
- .8 Minor parties.

.81, Prohibition, see also 178.5, Ethics; .82, Greenback, see also 332.5, Paper money; .83, Woman suffrage, see also 324.3, Suffrage; .84, People's; .85, Labor, see also 331.8, Laboring classes.

- .9 Parties in other countries. Divided geographically like 940-999.

330 Political economy.

.1, Theories; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .8, Polygraphy; .9, History.

331 Capital. Labor and wages.

- .1 Relations of capital to labor.
- .2 Wages. Comparative wages. Profit sharing. Compulsory insurance.
- .3 Labor of children. See also 179.2, Cruelty to children.
- .4 Labor of women. See also 396.5, Woman.
- .5 Convict labor. Prison contracts. See also 365, Prisons.
- .6 Pauper labor. Cheap foreign labor. Chinese.

See also 339, Pauperism; 362.5, Asylums.

- .7 Skilled and unskilled labor.
- .8 Laboring classes. See also 329.85, Labor party.
- .81 Hours of labor.
- .82 Places of labor. Dangers.

See also 613.6, Hygiene; 622.8, Mining; 614.8, Protection of life.

- .83 Food. Clothes. Shelter. See also 640, Domestic economy.
- .84 Morals and habits. Thrift. Temperance. Amusements. Temptations.

See also 170, Ethics; 790, Amusements; 263.6, Sunday.

- .85 Helps. Lectures. Libraries. Reading-rooms, etc.

See also 374.5. Popular lectures; 020, Libraries; 263.7, Sunday.

- .86 Training. Apprenticeship.
- .87 Organization of labor.
- .88 Trade unions and other labor societies. See also 338.6, Guilds.
- .89 Strikes.

332 Banks. Money. Credit. Interest.

.1 **Banks and Banking.**
.11, National; .12, State; .13, Private; .14, Trust companies; .15, Foreign. See also 334.2, Co-operative banks.
.2 **Savings Banks.**
.3 **Loan Institutes.**
.31 Credit Institutes.
.32 Building Associations. See 334.1, Co-operation.
.33 Monts de Piété. Governmental.
.34 Pawn Shops. Private.
.4 **Coins and Coinage. Mints.**
.41 Coinage Metals. Production and Value. Gold. Silver. Nickel. Copper
.42 Single and Double Standard.
.43 International Standards.
.44 Monetary Congresses.
.45 Comparative Value of Moneys.
.46 Mints.
.47 Coinage Laws.
.48
.49 History of Mints and Coinage. Divided geographically like 940–999.
.5 **Paper Money. Public and Private Notes.** See 320.82.
.6 **Stocks and Stock Exchanges. Bonds.**
.7 **Credit. Credit System.**
.8 **Interest and Usury.** See also 336.31, Public securities.
.9 **Counterfeiting. Forging.** See 343, Criminal Law.

333 Land. Ownership, Rights, and Rent.

See 338, Production; and 630, Agriculture.

.1 **State Ownership.**
.2 **Community Ownership.**
.3 **Private Ownership.**
.4 **Absentee Owners. Alien Owners.**
.5 **Rent of Land for Cultivation.**
.6 „ „ **Building.**
.7 **Forests.**
.8 **Mines.**
.9 **Fisheries.**

334 Co-operation.

.1 **Building Societies. Loans. Organization.** See also 332.32.
.2 **Co-operative Banks.** See also 332, Banks.
.3 „ **Insurance Societies.** See also 368. Insurance
.4 „ **Housekeeping.** See also 640, Domestic economy.
.5 „ **Consumptive Associations. Stores.**
.6 „ **Productive Associations. Factories.**
.7 **Friendly Societies.**
.8 **Burial Societies.**

335 Socialism and Communism.

.01, Theory of property.
.1 **English Socialism.**
.2 **Saint Simonism.**
.3 **Fourierism.**
.4 **Communism.**
.5 **German Socialism. Social Democracy.**
.6 **State Socialism. Socialism of the Chair.**
.7 **Christian Socialism.**
.8
.9 **Socialistic Communities.**
Divided by countries like 930–999.

336 Finance.

.1 **State Domain and Properties.**
.11 Management and Income from Rents.
.12 Sale.
.13 Land Claims.
.14 Land Grants to Railroads, Colleges, etc. See also 379.12, Education.
.19 State Monopolies. e. g. French State Monopoly of Tobacco Trade. See also 338.8, Monopolies.
.2 **Taxation.**
.21 Direct.
.22 Real Estate.
.23 Personal.
.24 Income.
.25 Poll.
.26 Customs. Specific or Ad Valorem. See 337, Protection.
.27 Excise. Licenses. Liquor Dog. Legacies. Stamp Duties. See also 178.4.
.28 Local Taxes. See also 379.13, School funds.
.29 Assessment and Collection of Taxes.
.3 **Loans. Public Securities.**
.31 Interest-bearing Securities. See also 332.8, Interest.
.32 Floating Debt.
.33 Sinking Fund.
.34 Public Credit.
.35 Annuities.
.36 Repudiation.
.4–9 **Finance of Special Countries.** Divided geographically like 940–999.

337 Protection and Free Trade.

See also 336.26, Customs.

.1 **Absolute Free Trade. No Tariff.**
.2 **Free Trade, i. e. Tariff for Revenue only.**
.3 **Protection.**
.4 **Subsidies.**
.5 **Duties on Special Articles. Steel, Wool, etc.**
.6 „ „ **Raw Materials.**
.7 „ „ **Books and Works of Art.**
.8 **Duty Free Importation for Colleges, etc.** See also 021.9, Libraries
.9 **Reciprocity.**

338 Production. Manufacture. Prices.

.1 Agricultural products.
.2 Mining products. See also 332.41, Coinage metals.
.3 Water ,, Fish, ice, etc.
.4 Manufactured products. Machinery in industry.
.5 Prices.
.6 Guilds. See also 331.88, Trades unions.
.7 Corporate industries.
.8 Monopolies. See also 336.19, State monopolies.
.9 Industrial legislation. Divided geographically like 940–999.

339 Pauperism. See also 379.22, Illiteracy; 362.5, Pauper asylums; 331.6, Pauper labor.

340 Law.

General works.

Most periodicals belong in Private law, 347.05.

.1 Philosophy. Theories. Law of nature.
.2
.3 Antiquities. Torture. Trial by ordeal. Duel, etc.
.4 Trial by jury.
.5 Comparative legislation.
.6 Medical jurisprudence. See also 614.23, Expert testimony.
.7 Education. Law school. Office training.
.8 Polygraphy. Collections.
.9 Legal anecdotes and miscellany.

Public law.

341 International law.

.01, Philosophy; .02, Compends, etc., like 300.

.1 International congresses.

Of diplomatic agents for settling international relations. Congresses on special topics go with their subjects; e. g. 332.44, on Coinage.

.2 Treaties. Texts and history.

Class with most important country, dividing like 940–999.

.3 Law of war. Captives. Neutrals.
.4 International criminal law.
.5 International private law.
.6 Arbitration.
.7 Diplomacy.
.8 Consular systems.

342 Constitutional law and history.

Divided by countries like 930–999. Under each, works may be divided: 1, Texts of constitution; 2, Conventions; 3, Systems; 4, Essays; 8, Polygraphy; 9, History.
For Administrative law, see 350.

343 Criminal law.

.1 Criminal trials.
.2 Punishments.

Corporal. Death penalty. Hard labor. Confinement.

.3–9 Of special countries. Divided by countries like 930–999.

Under each country, works may be divided: 1, Penal codes; 2, Reports; 3, Criminal procedure; 4, Text books and manuals.

344 Martial law.

Private Law.

345 U. S. Statutes and Cases.

Divide each of the sections .1–.5, using 1, U. S.; 2, Individual states arranged alphabetically; e. g. Statutes at large of U. S., 345.11; Acts and resolves of Mass., 345.12.

.1 Session Laws.
.2 Codes. Revised Statutes.
.3 Law Digests (of Statutes).
.4 Reports.

Use .4, U. S. Supreme Court; .41, U. S. Circuit and District Courts; .415, Periodical collections of various states; e. g. Eastern Reporter, etc.; .42, Reports of individual states.

.5 Digests of Cases.

346 British Statutes and Cases.

Divided like 345. Includes all reports in English language except U. S. reports.

347 Treatises. American and English Private Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies, Bar associations; .08, Polygraphy; .09, History.
Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1–.8 may be disregarded and all English law text-books arranged in one alphabet by authors. An elaborate division, similar to Medicine, will be published after further revision.

.1 Persons. Legal Capacity.
.2 Realty.
.3 Chattels. Movables.
.4 Contracts.
.5 Torts.
.6 Family Law and Inheritance.
.7 Commercial and Maritime.
.8 Equity.
.9 Civil Trials. Procedure.
.91 Civil Trials.
.92 Pleading.
.93 Forms.
.94 Evidence. Testimony in general not limited to civil trials.
.95 Remedies.
.96 Justices of the Peace. Notaries. Sheriff.
.97 Organization of Courts.
.98 Jurisdictions.
.99 History of Special Courts.

348 Canon Law.

349 Foreign Law.

Divided like 930–999, and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French Law of Torts. 349.442 is French Code. Roman Law is divided:

.37 Roman Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History.

.371 Sources. Ante-Justinian.
.372 ,, Justinian.
.373 History and Criticism of Sources.
.374 Institutes. Ancient Roman Law.
.375 Pandects. Modern ,, ,,
.377 Treatises on Special Topics.
Divided like 347.

350 Administration.

Including Military science. .1, Theory; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History. A large number of the questions properly placed under Administration are classed with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject "Administration" and to provide for cross references by those specially interested. See also 342, Constitutional law and history.

351 Administration of Central Government.

.1 Organization of Civil Service.

Officers. Method of election or appointment. Official functions and powers. Mutual relations.

.2 Civil Lists.

.3 Examination.

.4 Tenure of Office. Discipline. See 351.92, Power of removal.

.5 Pensions.

.6 Reform. Spoils System vs. Office-holding Class.

.7 Subjects of Administrative Action.

See also 353, United States; 354, Foreign states.

.71 Financial Administration.

See 336, Finance, Public property, Taxation.

.72 Budget. Public Accounts.

.73 Internal Affairs.

See also 323, Domestic relations.

.74 Police Measures.

.75 Public Safety and Order.

See also 352.2, Police; 365, Prisons, etc.

1, Press.

2, Reunion and Association.

3, Weapons.

.76 Vice and Good Manners.

1, Liquor Regulation. See 178, Temperance.

2, Public Gaming. See 174.6, Ethics.

3, Public Begging, etc. See 339, Pauperism.

4, Prostitution. See 176.5, Ethics.

.77 Sanitary Police.

See 352.4, Boards of health; 614, Public health, etc.

.78 Accidents. See 614.8, Public health.

1, Buildings. See 614.85.

2, Fires. See 614.84.

351.8 Promotion of Public Welfare.

.81 Means of Communication.

See 380, Commerce, Communication.

1, Highways. See 386; 352.7, Local government.

2, Railways. See 385.

3, Waterways. See 386; 387.

4, Ferries.

5, Bridges. See 352.7, Local government.

6, Post Office. See 383.

7, Telegraphs. See 384.

.82 Trade and Industry.

1, Weights and Measures. See 389, Commerce.

2. Coinage and Money. See 332, Banks, Money.

3, Landed industry.

Agriculture. See 630, Useful arts; 338.1, Production.

Forests. See 634.9, Agriculture; 333.7, Land.

Mines. See 622, Mining; 338.2, Production; 333.8, Land.

4, Commercial and Manufacturing Industry.

See 380, Commerce; 338, Production.

5, Institutions of Credit. See 332, Banks, Credit.

Savings Banks. See 332.2.

Mutual Benefit Societies. See 334, Coöperation.

Insurance. See 368; 334.3, Coöperative insurance.

Monts de piété. See 332.33.

.83 Labor. See 331, Capital, Labor, Wages.

.84 Public Charity.

See 339, Pauperism; 360, Associations and Institutions.

.85 Education and Worship.

1, Public Education. See 379, Education.

2, Public Libraries. See 027.4, Library economy.

3, Art Museums. See 708, Art.

7, Worship. See 322, Church and State.

Military and Naval. See 355-359, Army and Navy.

Justice. See 340, Law.

Foreign Affairs. See 341, International law; 327, Political science.

.9 Control over the Administration.

.91 Administrative Control.

By superior officers.

.92 Disciplinary Power.

Power of removal. See also 351.4, Tenure of office.

.93 Supervision.

Power to annul or amend specific acts.

.94 Judicial Control.

1, Ordinary Courts. See 347.5, Law of torts.

5, Criminal Courts. See 343, Criminal law.

.95 Administrative Courts.

.96 Parliamentary Control.

.97 Petitions and Addresses.

.98 Investigations.

.99 Impeachment.

352 Local Government. Town. City. County.

See also 379, Public schools; 020, Libraries.

General Questions of Municipal Administration.

.001 Growth and importance of cities.
.002 Cities and state control.
.003 City as a juristic person,—a corporation.
See also 347.1, Law of corporations.
.004 City organization, municipal elections.
.005 Municipal civil service.

Local Administration of Special Countries and Cities.

.03–.09, divided by countries like 930–999.

.042 Local Government in England.

Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows:

1, County.
2, Municipal borough.
3, Parish.
4, Union. See 339, Pauperism.
5, Sanitary districts. See 614, Public health.
6, School districts. See 379, Education.
7, Higbway areas. See 352.7.

.043 Local Government in Germany.

Special cities like 352.042.

1, Province. Landtag, Provincial Committee, Director.
2,
3, Circle, Circle Diet, Circle Committee, Landrath.
4, Commune.
5, Towns.
6, Townsbip.

.044 Local Government in France.

Special cities like 352.042.

1, Department.
2, General council.
3, Departmental commission.
4, Prefect.
5, Arrondissement.
6, Commune.
7, Mayor.
8, Municipal council.

.1 Finances. City Property and Local Taxation.

See also 336, Finance.

.2 Police.

.3 Fire Department. See also 621.68, Fire engines; 614.84, Fires.

.4 Public Health. Board of Health. See also 614, Medicine.

.5 Public Buildings and Works.

.6 Water and Sewerage Works. See also 628, Sanitary engineering

.7 Streets. Highways. Bridges. Parks.

.8 Licenses. Hack, Huckster, Entertainment, etc.

.9 Other Topics.

353 United States and State Government.

See also 342.73, Constitutional law and history.

.01, Administrative centralization.
.02, Separation of powers.
.03, President.
.04, Departments.
.05, Cabinet.

.1 State Department.

.2 Treasury " See also 336.73, Finance of U. S.

.3 Interior "

.4 Post Office " See 383.

.5 Judiciary "

.6 War " See 355, Army. Military science.

.7 Navy " See 359, Navy. Naval science.

.8 Other "

.9 State Government. Divided like 974–979.

Apply same decimals for State and Foreign Governments. For departments not here specified use .8 and .9, and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dept. of D. C. 353.97535.

353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th Regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476.

354 Organization of Central Government. Foreign States.

See also 342, Constitutional law and history.

Divided geographically by countries like 930–999. Under each country the U. S. divisions, 1, State, 2, Treasury, etc., may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Monarch.
04, Privy council.
05, Cabinet.

.43 Administration of Germany. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, Empire.
04, Bundesrath.
05, Emperor.
06, Ministry.
07, States. Monarchs.
08, Landtag. Ministers. Council of state.
09, Free cities.

44 Administration of France. Central Government.

01, Administrative centralization.
02, Separation of powers.
03, President.
04, Ministers.
05, Council of state

355 Army. Military Science. See 623, Military engineering.
Limited to military science, tactics, etc. For War department of U. S. or history of regiments, see 353.6 and 353.9. Divided by a o, like 350.

356 Infantry.

357 Cavalry.

358 Artillery.

359 Naval Science. See 623.8, Naval engineering.
Divided by a o, like 350

360 Associations and Institutions.

This covers what is best known as "Charities and Corrections," and general works on this topic go in 360. Note. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.942..

361 Charitable. See also 377.7, Charity schools.

362 Hospitals, Asylums, and Allied Societies.
For Inebriate asylums, see 178.6, Temperance reformatories.

.1 **Sick and Wounded. Incurables. Eye and Ear Infirmaries. Lying-in Hospitals. Dispensaries.**

.2 **Insane.** See also 132.1, Insanity.

.3 **Idiotic.** See also 132.2, Idiocy; 371.93, Education.

.4 **Blind. Deaf. Dumb.** See also 371.91 and 371.92, Education.

.5 **Paupers.** See also 339, Pauperism; 331.6, Pauper labor.

.6 **Aged.**

.7 **Children. Orphans. Foundlings.** See also 179.2, Cruelty, ethics.

.8 **Other.**

.9 **Special Countries.**
Divided like 930–999; e. g. 362.942 is Hospitals of England.

363 Political. Tammany, Primrose League, Ku Klux, etc.

364 Reformatory. Schools. Discharged convicts. Criminal classes.

365 Prisons. Discipline. See also 331.5, Convict labor.

366 Secret Societies. .1, Masons; .2, Knights of Pythias; .3, Odd Fellows; .4, Rosicrucians.
See also 371.85, College secret societies.

367 Social Clubs.

368 Insurance. See also 334.3, Co-operative Insurance.

.1, Fire; .2, Marine; .3, Life, .31, Annuities; see also 336.35, Public annuities; 519.5, Probabilities; **.4, Accident; .5, Animal and Crop; .6, Plate Glass; .7, Boiler; .8, Credit and Bonds; Land Titles; .91, Government Control; Commissioners.** 93–99 divided geographically like 930–999; e. g. Insurance in New York (including state reports, etc.) is 368.9747.

369 Other. Cincinnati.

369 Other associations and institutions

.1 **Hereditary and patriotic societies (American)**

.11 **General associations**

111 Regular army and navy union
.112 Society of veterans of the regular army and navy
.113 Military and naval order of the United States
.114 Medal of honor legion
.115 Military order of foreign wars of the United States
.116 Order of the old guard
(Incorporated 31 Jan. 1896; organized 15 Oct. 1896)
.117 Naval order of the United States
.118
.119

.12 **Colonial societies**

.121 Society of colonial wars
.122 Society of colonial dames of America
.123 Colonial dames of America
.124 Society of the Mayflower descendants
.125 Order of the founders and patriots of America
.126
.127
.128
.129

.13 **Revolutionary societies**

.131 Society of the Cincinnati
.132 Society of the daughters of the Cincinnati
.133 Sons of the American revolution
.134 Sons of the revolution
.135 Daughters of the American revolution
.136 Daughters of the revolution
.137
.138
.139

.14

.141 Society of the war of 1812
.142 United States daughters of 1776–1812
.143 Military society of the war of 1812
.144
.145 Aztec club of 1847
.146
.147
.148
.149

.15 **Civil war societies, Union**

.151 G. A. R. (Grand army of the republic)
.152 Military order of the Loyal legion
.153 Society of loyal volunteers
.154 Union veterans union
.155 Union prisoners of war association
.156
157 National association of naval veterans
158
159

.16

.161 Woman's relief corps

.162 Woman's veteran relief union

.163

.164

.165 Society of the sons of veterans, U. S. army

.166

.167

.168

.169

.17 **Civil war associations, Confederate**

.171 Confederate survivors association

.172 Confederate veterans association

370 Education.

.1, Philosophy, Theory; .2, ; .3, Dictionaries, Cyclopædias; .4, Essays, Addresses; .5, Periodicals (for College Papers, see 378); .6, Societies, Associations; .7, Education, Teachers' Institutes, Normal Schools; .8, Polygraphy; .9, History divided by countries, like 930–999.

371 Teachers, Methods, and Discipline.

.1 Teachers.

.11 Qualifications

.12 Training.

.13 Examination. Certificates.

.14 Appointment. Tenure.

.15 Permanent Profession vs. Stepping-stone Theory.

16 Salary and Promotion.

.17 Pensions for Teachers.

.18 Women as Teachers.

.19

.2 School Organization.

.21 Admission. Enrollment. Matriculation.

.22 Tuition Fees.

.23 Terms. Vacations. Holidays. See also 613.76 and 613.77, Hygiene.

.24 Hours. Recess.

.25 Classes. Grades.

.26 Marking System.

.27 Examinations. Oral, Written. Cramming. See also 428.9, Language.

.28 Promotions.

.29 Graduation. Diplomas.

.3 Methods of Instruction.

.31 Rote or Concert Teaching.

.32 Text Books. Recitations.

.33 Lectures.

.34 Developing or Inductive Method.

.35 Art of Questioning.

.36 Topical Method.

.37 Seminary Method.

.38 Laboratory Work.

.39 Other Methods. Correspondence.

.4 Systems of Education.

.41 Bell and Lancaster, or Monitorial.

.42 Fellenberg's or Manual Labor.

.43 Military Organization.

.44 Pestalozzian.

.45 Jacotot's.

.46 Fröbel's. See 372.2, Kindergarten.

.47 "Quincy System."

.5 Government. Discipline.

.51 Rules.

.52 Attendance. Truancy. Tardiness.

.53 Rewards. Prizes.

.54 Punishment.

.55 Corporal Punishment.

.56 Confinement. Tasks.

.57 Monitors.

.58 Moral Government. Alcott.

.59 Student Self- overnment.

371.6 **School Furniture and Apparatus.**

.61 Furniture.
.62 Lavatories, etc.
.63 Globes, Maps, etc. 912.
.64 Libraries. See 021.3. 027.8.
.65 Museums.
.66 Apparatus.
.67 Laboratories. 542.1.
.68 Observatories. 522.1

.7 **School Hygiene.** 613.

.71 Health of Students. Over-study.
.72 Care of Eyes. Effect of Study.
.73 Care of Body. Gymnastics. Calisthenics. See also 613.71, Hygiene.
.74 Recreations. Games, etc. See also 613.74, Play; 796, Out-door sports.
.75 Championship Games. Boat-races.
See also 175.7, Ethics; 613.73, Hygiene; 796, Out-door sports.
.79 Other Special Topics.

.8 **Student Life and Customs.**
See 784.6, College Songs; 378.29, College Costumes.

.81 Student Honor. Cribbing. Cheating. Keys. "Ponies."
.82 Fagging and Hazing.
.83 Student Organizations.
.84 Literary Societies.
.85 Secret Societies. See also 366, Secret societies. Chapters in special college go here with reference from the college.
.86 Society Houses. Halls. Temples, etc.
.87 Dormitories.
.88 Commons.
.89 Customs. Celebrations. Triumphs. Burnings, etc.

.9 **Education of Special Classes.**

.91 Blind. See also Asylums, 362.4; 655.
.92 Deaf and Dumb. See also Asylums, 362.4.
.93 Feeble-minded. See also 362.3, 132.2, 920.8.
.94 Freedmen. Negro.
.95 Indians.
.96 Orientals.
.97 Criminals. Reform Schools. See also 364. Reformatories.
.98 Special Nationalities. e. g. Germans in U. S.
.99 Co-education of Races.

372 Elementary Education. Primary Schools.

.1 **Special Methods of Government.**
.2 **Kindergarten.**
.3 **Observing Powers. Object Teaching. Science.**
.4 **Reading. Alphabet. Phonics and Word Methods.**
See also 428.6, Elementary readers.
.5 **Elementary Writing and Drawing.** See also 741.
.6 **Elementary Grammar. Language Lessons.** See also 428.2.
.7 **Elementary Arithmetic.** See also 511.
.8 **Elementary Geography.** See also 910.7.
Some may prefer to put these Elementary Text Books with their subjects, but a Primer of Geography is more useful to the Student of Elementary Schools and Methods than to one interested in Description, Travels, and Geography. Text books, except primary, go with the subject.
.9 **Special Countries and Schools. History, Reports, etc**
Subdivided like 940–999; e. g. 372.942, English elementary schools.

373 Intermediate. Academic. Preparatory.

The discussions of theories, methods, etc., are classed regardless of the public support; but schools classed in 372.9, 373.4–9, 376.9, 377.3–7, and 378.4–9 are all private or endowed, except parts of Primary, schools for women, and colleges which, even supported by public funds, are preferably classed in 372.9, 376, and 378. All other "public" schools, i. e. paid for from the public treasury, are groupt under 379.4–9. Besides schools, such topics as "American students in Europe" go naturally in 373.4 or, if the topic be "European universities," in 378.4. Peabody & Slater funds go in 373.75.

.1 **Home Education. Tutor. Governess.**
.2 **Day Schools.**
.3 **Boarding Schools.**
.4–9 **Special Countries and Schools. History, Reports, etc.**
Subdivided like 940–999; 373.42, Higher English Schools.

374 Self-education and Culture.

.1 **Private Reading. Conversation.** See 028.
.2 **Reading Circles. Book and Periodical Clubs.**
.3 **Lyceums. Literary Clubs.**
.4 **Debating Societies.**
.5 **Popular Lectures.**
.6 **Popular Summer Schools.**
See also 407, 507, for Schools of Science, etc., for specialists, which are classed with their subject not with these popular gatherings.
.7 **Chautauqua Courses.**
.8 **Societies for Home Study, Correspondence Colleges.**
.9 **Institutions. e. g. Cooper Union.**

375 Curriculum.

.01, Order of Studies; .02, Single Course; .03, Parallel Courses; .04, Optional Studies; .1–.9, Special Studies, in the order and subdivided like 100–999. e. g. 375.5, Place of Science in Curriculum; 375.82, Place of English Literature; use 375.84 also for General Questions on Modern Languages, and 375.88 for Classics.

376 Education of Women. 396.4.

.1 **Physical Capacity of Women.**
.2 **Mental Capacity of Women.** See 136.1.
.3 **Domestic Education.**
.4 **Fashionable Education.**
.5 **Conventual Education.**
.6 **Collegiate Education.**
.7 **Co-education.**
.8 **Colleges for Women.** Degree conferring colleges go here. All other schools for women go in 376.9.
.9 **Special Countries and Schools. History. Reports, etc.**
Subdivided like 940–999; 376.943, Education of women in Germany.

377 Religious, Ethical, and Secular Education.

.1 **Bible in public schools.**

.2 **Ethical education.** See also 170.7, Ethics.

.3 **Monastic schools.** See also 271, Monastic orders.

.4 **Diocesan schools.**

.5 **Parochial schools.** See 257.

.6 **Missionary schools.** See 266.

.7 **Charity schools.** See also 361, Charitable institutions.

.8 **Church and education.** See also 261.5, Church.

Subdivided like 280; e. g. 377.82, Relation of Roman Catholic church to education.

.9 **Non-Christian religions and education.**

Subdivided like 290; e. g. 377.97, Relation of Mohammedanism to education.

378 Colleges and Universities. With power of conferring degrees.

.1 **University Education.**

.13 University extension.

.2 **Academic Degrees and Costume.** See 614.21, Medical degrees.

.21 Degree-conferring body. College, University, or State.

.22 Graded degrees. Cum laude, etc.

.23 Degrees in course.

.24 Degrees on examination.

.25 Honorary degrees.

.26 Degrees by purchase or forgery.

.27

.28

.29 Academic gowns and hoods.

.3 **Fellowships. Endowment of research.**

.4-9 **Special countries and colleges. History, reports, etc.**

For Women's colleges, see 376.8.

Subdivided like 940–999. e. g. 378.42, English universities; 378.741, Maine colleges.

The various colleges of any section may be given each a number or be arranged alphabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figure) used to designate the college; e. g. a history of Harvard college would be marked 378.744—HE, and a second history would be book numbered HE1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers.

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS.

A Charter and Statutes.
B Trustees. Regents. Resolutions, reports, etc.
C Administration. President, Chancellor. Reports, etc.
D Finances. Treasurer's reports.
E History. Foundation, growth, etc.
F Biography. Necrology.
G General Catalogs. Triennials, etc.
H Annual Catalogs. Attendance, registers, etc.
I Handbooks. Circulars of information.
J Bulletins. Official periodicals.
K Addresses. Inaugurals. Baccalaureates. Commencements. etc.
L Programs. Tickets. Memorabilia.
M Faculty (as a body). Publications. Regulations. Certificates for admission, etc.
N Lectures. Class manuals. Examination questions.
O Student theses. Orations, essays, etc.
P Student catalogs. Society annuals, etc.
Q Student periodicals.
R Student societies, including periodicals.
S Student miscellany. Songs. Class day, etc.
T Alumni. Societies, committees, etc.
U Classes. Histories, records, etc.
V Pictures. Class albums.
W Buildings and grounds. Descriptions, maps, etc.
Z Schools. Divinity, law, medical, etc.

379 Public schools. State education.

.1 **Public school system.**

.11 School funds.

.12 National aid to education. Land grants. See also 335.14, Finance.

.13 Local Taxation. See also 336.28, Taxation.

.14 School laws. School age.

.15 School supervision; National, state, and local. Duties of parents.

.16 National and State Universities.

Only discussion here; for special colleges, see 378.4-9.

.17 Secondary schools. High schools. Academies. Grammar schools.

.18 Primary schools.

.19 Evening schools.

.2 **Illiteracy.**

.21 Illiteracy and Crime.

.22 Illiteracy and Pauperism. See also 339, Pauperism.

.23 Compulsory education.

.24

.3 **Public vs. private and endowed schools.**

.4-9 **Special countries, sections, cities or schools.**

Subdivided like 940-999. e.g. 379.73, Reports of U. S. Commissioner of Education; 379.74, Education in Massachusetts; 379.7471, in New York City.

380 Commerce, Communication.

The technical side of these questions goes mostly in 650, Useful Arts. Here belong discussions of social and political relations; e. g. government control of railroads, telegraphs, etc.

381 Domestic Trade.

382 Foreign Trade. Consular reports.

383 Post Office. See also 353.4, U. S. administration.

384 Telegraph. Cable. Telephone. See 654.

385 Railroad and Express. See 656. Railroading.

386 Canal and Highway Transportation. "

387 River and Ocean Transportation. "

388 City Transit. See 625.

389 Weights and Measures. Metrology. See 658.

390 Customs. Costumes. Popular Life.

These heads are for discussions by topic. Customs, etc., of any special country go in 913-919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese Customs, 915.2. For Customs of Primitive Man, see 571.

391 Costume and Care of Person. See 646, Clothing; 613.4, Hygiene.

- .1 Costumes of Men.
- .2 Women.
- .3 Children.
- .4 Extremities. Hats, Gloves, Sandals, Shoes, Stockings, etc.
- .5 Hair Dressing, Barbers.
- .6 Care of Person, Bathing, Toilet.
- .7 Ornaments and Jewelry.
- .8

392 Birth. Home, and Sex Customs.

- .1 Birth Customs, Christening, Circumcision.
- .2 Sacrifice and Exposure. See 173.4, Ethics.
- .3 Family and Home Relations.
- .4 Betrothal.
- .5 Marriage.
- .6 Sex Relations, Concubinage.
- .7

393 Treatment of the Dead. See 614.6, Public Health.

- .1 Earth Burial. See 719, Cemeteries.
- .2 Cremation.
- .3 Embalming, Mummies.
- .4 Exposure.
- .9 Special Funeral Customs. Wake, Suttee.

394 Public and Social Customs.

- .1 Eating, Banquets.
- .2 Shows and Diversions.
- .3 Games, Dances, etc.
- .4 Ceremonies.
- .5 Processions.
- .6 Fairs.
- .7 Chivalry, Tournaments.
- .8 Duelling, Suicide.

See 179.7, Ethics; 340.3, Law, Trial by Ordeal.

395 Etiquet.

396 Woman's Position and Treatment.

For Costumes, see 391.2; Biography, 920.7.

If a special library about women is wished, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc., but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of Women, from the rest of medicine. Books on woman in general go in 396.

.1 Emancipation.

.2 Legal Status, Property, Rights, etc.

.3 Political Status. See 324.3, Suffrage; 329.83, Woman Suffrage Party.

.4 Education. See also 376, Education of Women.

.5 Employment. See 331.4, Labor of Women; 371.18, Teachers.

Divided like General Classification; e. g. Woman as scieutist, 396.55; woman as painter, 396.575; woman as author, 396.58, etc.

.6 Woman in Home.

.7 Delineation of Woman in Art.

.8 Delineation of Woman in Literature.

.9 Woman in History, Politics, War. Amazons.

397 Gipsies. Nomads. Outcast Races.

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place in the linguistic groups of 400, as the Gipsy people have no place in the geographical divisions of history.

398 Folk-lore. Proverbs, etc. See also 291-3, Mythology.

This section is for material needed in studying Folk-lore. Mere Stories for Children, unless having a value to students of Folk-lore, go in 823, or in J, if there be a Juvenile collection.

.1 Primitive Traditions.

.2 Legends, tales, traditions.

.3 Folk-lore, traditional beliefs and customs, popular superstitions.

.4 Fairies, Elves etc.

.5 Chapbooks.

.6 Riddles.

.7 Dream Books.

.8 Song Books. Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folk-lore, etc.

.9 Proverbs.

399 Customs of War.

Weapons. War Dances. Treatment of Captives. Scalping. Mutilation. Burning. Cannibalism.

Philology.

400 Philology in General.

In Philology the general works put under 400-419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practice are most convenient here. Under 439, 479, and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group.

401 Philosophy, Origin of Language.

402 Compends, Outlines.

403 Dictionaries, Cyclopedias.

404 Essays, Lectures, Addresses.

405 Periodicals.

406 Societies, Transactions, etc.

407 Education, Teaching Languages.

408 Polygraphy, Collections.

.9 Universal Language. .91 Volapük.

409 History of Language.

410 Comparative.

410-419 includes *comparative* works in *general* and also those on the Indo-European group in general, but general *and comparative* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language.

411 Orthography, Orthoepy, Alphabets.

412 Etymology, Derivation.

413 Dictionaries, Lexicography.

414 Phonology. Visible Speech.

415 Grammar, Morphology, Syntax.

416 Prosody.

417 Inscriptions. Palæography. See 421.7. 471.7, 481.7, etc.

Rare early mss. are put in 091.

418 Texts.

419 Hieroglyphics. See 493.1.

.1 Sign Language. For deaf mute alphabets, see 371.92.

420 English Philology.

.1, Philosophy; .2, Compends; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collective Works; .9, History of the Language.

421 Orthography.

See also this head treated in general grammars placed under 425.

.1 Alphabet. For Deaf Mute Alphabets, see 371.92.
.2 Vowels. Diphthongs. Aspirates.
.3 Consonants.
.4 Phonetic Spelling. Spelling Reform.
.5 Orthoepy.
.6 Accent.
.7 Palæography. Inscriptions.
.8 Abbreviations. For Stenographic and other uncommon contractions and abbreviations, see 653, Shorthand.
.9 Punctuation.

422 Etymology. Derivation.

422 is limited to Derivation. For Inflection, also called Etymology, see 425.1.

.1 Origin and Laws of Language.
.2 Prefixes. Suffixes.
.3 Reduplication.
.4 Foreign Elements.
.5 Noun Forms. Case, Number, Diminutives.
.6 Adjectival Forms. Degrees of Comparison.
.7 Pronominal Forms. Personal, Possessive, Relative, etc.
.8 Verbal Forms. Moods, Tense, Voice, etc.
.9 Particles. Adverbs, Prepositions, etc.

423 Dictionaries. Idioms.

.1, Idioms; .2, English; .3, German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i.e. that by which it is alphabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library, the first plan, with only English dictionaries in 423, and both *in* and *out* dictionaries together under little known tongues is more convenient. References in either case show what may be found in the other place.

424 Synonyms. Homonyms.

425 Grammar.

425 includes General Works, covering also Orthography and Prosody.

.1 Morphology. Inflection. Divided, .5 Nouns, etc. See 422.
.2 Syntax.
.3 Arrangement of Words and Clauses.
.4 Particular Sentences; Conditional, Hypothetical, etc.
.5 Nouns.
.6 Adjectives. Articles.
.7 Pronouns.
.8 Verbs.
.9 Particles.

426 Prosody.

See also the head Prosody, in General Grammars 425.

.1 Quantity and Accent.
.2 Versification.
.3 Feet.
.4 Figures of Prosody.
.5 Meters.
.6 Rhymes.
.7 Strophe and Antistrophe.
.8 Textbooks for Writing Verse.
.9

427 Dialects. Early Forms of Language. Slang.

Subdivided by geographical divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect, 427.41. The dialects of other languages take the geographical subdivisions of their countries. Dialects not provided for in these heads are placed with the last, e. g. American and Scotch with 427.9. The division by time is made with a fifth figure after 0; the earliest form of the language is marked .01; .09 is used for modern slang, e. g. 427.01, Old English.

428 School Books. Texts for Learning the Language.

Including only books for *learning* the language, with grammatical or philological notes, etc. For other works see the literature of the language, 820.

.1 Spelling Books.
.2 First Lessons. Elementary Composition. For Rhetoric see 808.
Including in other languages books like Fasquelle, Ollendorff, Latin Prose, etc.
See also 372.6, Elementary Grammars.
.3 Errors of Speech. Vulgarisms. Use of Words.
See 427.09, Slang; 424, Synonyms.
.6 Elementary Readers. See also 372.4, Education.
.7 Selections.
.8 Texts of Individual Authors.
.9 Examination Papers.

429 Anglo-Saxon.

The above subdivisions of English are used for all other languages and for 410, Comparative Philology.

All Languages are subdivided like 420 English.

430 German.

437.01, Old High German; 437.02, Middle High German.

439 Minor Teutonic. Including general works on Teutonic group.

.1 Low German.
.2 Frisian. Old Saxon.
.3 Dutch. Flemish.
.4 Platt Deutsch.
.5 Scandinavian.
.6 Old Norse. Icelandic. Faroese.
.7 Swedish.
.8 Danish. Norwegian.
.9 Gothic.

440 French.

449 Provençal

Old French, as the earliest form of the language, is 447.01.

450 Italian.

459 Wallachian.

.9 Rumansh.

460 Spanish.

469 Portuguese.

470 Latin.

479 Minor Italic. Mediæval Latin.

Including general works on Romance group.

480 Greek.

Divide 487, Greek Dialects, like 930; e. g. 487.2, Alexandrian Greek; 487.3, New Testament Greek; 487.81, Macedonian; 487.923, Ionic, etc.

489 Minor Hellenic. Modern Greek.

Including general works on Hellenic group.

Works on Latin and Greek together, unless very clearly most useful in the Latin, go with the Greek, which here as elsewhere is made to include general works on the ancient classics.

490 Minor Languages.

Each language subdivided if wished like 420 English.

491 Minor Indo-European.

(Besides Teutonic, 420-439, Italic, 440-479, and Hellenic, 480-489.) This head, 491, includes general works on the Indo-European tongues, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400-419 is really Indo-European; but see also 410.

.1 Indic.
.2 Sanskrit. Prakrit.
.3 Pali.
.4 Modern East Indian Languages.
Excluding Dravidian, which is 494.
.41 Sindhi.
.42 Panjabi.
.43 Hindustani. Hindi.
.44 Bengali.
.45 Uriya. Orissa.
.46 Marathi.
.47 Gujerati.
.48 Singhalese.
.49

.5 Iranic.
.51 Old Persian
.52 Zend. (Avestan.) Old Bactrian.
.53 Pehlevi. (Huzwaresh.)
.54 Armenian.
.55 Modern Persian.
.56 Ossetic.
.57 Kurdish.
.58 Afghani.
.59

.6 Keltic.
.61 Gadhelic Group.
.62 Irish.
.63 Gaelic or Scotch.
.64 Manx.
.65 Cymric Group.
.66 Welsh or Cymric.
.67 Cornish.
.68 Armorican or Bas Breton.
.69 Basque.

.7 Russian.
.79 Ruthenian.

491.8 Other Slavonic.

South East Slavonic Gronp.

.81 Bulgarian. (Church Slavonic.)
.82 Servian.
.83 Kroatian.
.84 Slovenian.

West Slavonic Group.

.85 Polish.
.86 Bohemian.
.87 Moravian. Slovakian.
.88 Sorbian.
.89 Polabian.

.9 Lettic.

.91 Old Prussian.
.92 Lithuanian.
.93 Lettish. (Livonian.)

492 Semitic.

Northern Group.

.1 Aramaic.
.19 Babylon and Nineveh Cuneiform.
.2 Chaldee.
.3 Syriac. (Peshito.)

Central Group.

.4 Hebrew.
.5 Samaritan.
.6 Phenician. (Carthaginian.)

Southern Group.

.7 Arabic.
.8 Ethiopic. (Amharic.)
.9 Himyaritic.

493 Hamitic.

.1 Old Egyptian. See 419 Hieroglyphics.
.2 Coptic.

494 Scythian. Ural-Altaic. Turanian.

Dravidian. Tamil. Finnish. Turkish.

495 Eastern Asiatic. Chinese.

496 African.

Excluding 493 Hamitic, 492.8 Ethiopic, etc., included in families above.

497 North American.

498 South American.

499 Malay-Polynesian and other.

The Gypsy language is not assigned to any group, but is placed for convenience with 397, Gypsies.

Natural Science.

500 Science in General.

501-509 all have *Science in General* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

501 Philosophy, Theories, Utility, etc.

502 Compends, Outlines, Ancient and Mediæval Science.

503 Dictionaries, Cyclopedias, etc.

504 Essays, Lectures, Addresses.

505 Periodicals, Scientific Magazines.

506 Societies, Transactions, etc.

507 Education, Methods of Teaching and Studying, etc. Museums. See also 370.

508 Polygraphy, Collected Works, Extracts, etc.

.1, Extracts; .2, ; .3, General scientific travels; .4—.9, Travels and surveys (if general) divided geographically like 940–999.

509 History of Science.

510 Mathematics.

Works on Mathematics in General, not limited to any one or two sections, are grouped by form of treatment like Science in General above; *i. e.*, into Mathematical.

510.1, Philosophy; .2, Collections, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Education; .8, Logarithmic and other Tables, Instruments; .9, History.

511 Arithmetic. See 372.7, Teaching arithmetic.

.1 Systems of Arithmetic. See also 512.81.
.2 Notation and Numeration. Fundamental Rules. Abacus.
.3 Prime Numbers.
.4 Fractions.
.5 Analysis. Permutation and Combination.
.6 Proportion and Progression. .61, Magic Squares.
.7 Involution and Evolution.
.8 Mercantile Rules. Interest. Alligation. Mensuration. Gauging. See 658, Business manuals.
.9 Problems and Tables.

512 Algebra.

.1 **Systems of Algebra.**

.2 **Numerical Equations. Imaginary Expressions.**

.21 Equations, 1st to 4th degrees.
.22 Higher Numerical Equations.
.23 Indeterminate Equations. Diophantine Analysis.
.24 Imaginary Expressions.

.3 **Algebraical Equations. Maxima and Minima.**

.4 **Series. Fractions. Binomial Theorem. Taylor's Theorem.**

.5 **Combinatory Analysis.**

.6 **Proportion and Progression.**

.7 **Involution and Evolution.**

.8 **Higher Algebra.**

.81 Theory of Numbers. See 511.1, Systems of Arithmetic.
.82 Theory of Equations. Complex Variable. See also 517.8.
.83 Determinants.
.84 Symmetric Functions.
.85 Elimination. Eliminants and Discriminants.
.86 Transformations. Substitutions.
.87 Quantics.
88 Invariants. Covariants. Contravariants.
.89

.9 **Problems and Tables.**

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is 515. See also Mathematical Drawing, 744.

.1 **Plane Geometry.**

.11 Right Lines.
.12 Intersecting Lines.
.13 Parallel Lines.
.14 Triangles.
.15 Quadrilaterals.
.16 Other Polygons.
.17 Similarity.
.18 Areas.
.19 Maxima and Minima

.2 **Curves.**

.21 Circles.
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

513.3 **Volumetric or Solid Geometry.**

.31 Lines and Planes.
.32 Intersecting Planes.
.33 Parallel Planes.
.34 Polyedrons.
.35 Pyramids.
.36 Prisms.
.37 Regular.

.4 **With Curved Surfaces.**

.41 Sphere.
.42 Cone.
.43 Cylinder.

.5 **Modern Geometry.**

.51 Points. Lines. Planes. Duality.
.52 Transversals.
.53 Cones. Conics. Involution.
.54 Radical Axes and Centres of Similitude.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Correspondence. Correlation of Figures.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvature.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 **Absolute or Non-Euclidean Geometry.**

.9 **Problems.**

514 Trigonometry.

.1 **Trigonometric Functions. General Formulæ.** See 522.7.

.2 **Trigonometric Series.**

.3 **Exponential Formulæ.**

.4 **Solution of Trigonometric Equations.**

.5 **Plane Trigonometry. Solution of Plane Triangles. Analytical.**

.6 **Spherical Trigonometry. General Formulæ.**

.7 **Solution of Spherical Triangles.**

.8 **Differences of Triangles, Plane and Spherical.**

.9 **Problems.**

515 Descriptive Geometry and Projections.

See also 744, Mathematical drawing.

.1 Orthogonal Projection on Two Planes.

.11 Straight Lines. Planes.
.12 Single Curved Lines.
.13 Double Curved Lines.
.14 Single Curved Surfaces.
.15 Double Curved Surfaces.
.16 Surfaces of Revolution.
.17 Warped Surfaces.
.18 Intersections of Surfaces.

.2 Isometric and Analogous Projections.

.3 Oblique Projection.

.4 Conical Projection.

.5 Spherical Projection. See 526.8, Map projection.

.51 Orthographic.
.52 Globular.
.53 Stereographic.
.54 Polar.
.55 Gnomonic.
.56 Conical.
.57 Cylindric.

.6 Perspective. See also 742, Drawing.

.61 Plane. Parallel. Oblique. Angular.
See also Scene Painting.
.62 Cylindrical.
See also Panorama Painting.
.63 Shadows; Natural and Artificial Light.
.64 Reflections.
.65 Circles, Cylinders and Spheres.
.66 Distortions and Corrections.
.67 Human Figure.
.68 New Methods. Special devices.

.7 Shades and Shadows.

.8 Stereotomy.

.81 Stone Cutting. See also 693.12, Masonry; 730, Sculpture.
.82 Carpentry. See also 694, Building.
.83 Stair Building. See also 694.8, Building; 729.39, Architectural design.

516 Analytical Geometry.

.1 Plane Loci.

.11 Right Lines.
.12
.13
.14 Transformation of Co-ordinates.

.2 Curves.

.21
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

CARTESIAN.

.3 Loci in Space.

.31 Right Lines.
.32 Planes.
.33
.34 Transformation of Co-ordinates.

.4 Curved Surfaces.

.41
.42 Conicoids or Quadric Surfaces.
.43 Ellipsoid.
.44 Hyperboloid.
.45 Paraboloid.
.46 Surfaces of Higher Order.

.5 Modern Analytical Geometry.

.51 Systems of Co-ordinates.
.52 Abridged Notation.
.53 Conics.
.54 Higher Plane Curves.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Method of Projection.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvatures.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 Quaternions. Calculus of Direction and Position

.9 Problems.

517 Calculus.

.1 **Infinitesimal. Method of Exhaustions.**
Differential and Integral Calculus, *bound together*, is put here.

.2 **Differential.**

.21 Series.
.22 Indeterminate Forms.
.23 Change of the Independent Variable.
.24 Theory of Plane Curves. Curve Tracing
.25
.26 Theory of Curved Surfaces.
.27 Maxima and Minima.
.28
.29 Problems.

.3 **Integral.**

.31 Formulæ of Reduction and Integration.
.32 Definite Integrals. Eulerian Integrals.
.33 Rectification. Quadrature. Cubature.
.34 Multiple Integrals.
.35 Laplace's Functions. Bessel's and Allied Functions.
.36 Elliptic and Hyperelliptic Functions. Abelian Functions.
.37
.38 Differential and Partial Differential Equations.
.39 Problems and Tables.

.4 **Of Variations.**

.5 **Of Functions.**

.6 **Of Finite Differences.**

.7 **Of Operations**

.8 **Of Imaginaries. Complex Variables.** See also 512.8a.

.9 Problems.

519 Probabilities.

.1 General Principles. Direct and Inverse Probabilities.
.2 Mathematical and Moral Expectation.
.3 Testimony. Decisions of Juries and Tribunals.
.4 Probability of Future Events deduced from Experience.
.5 Life Contingencies. Annuities. Life Insurance. See 368.3
.6 Errors of Observation. Mean or Average Values.
.7
.8 Method of Least Squares.
.9 Problems.

520 Astronomy.

520.1, Astrology, see 133.5; 520.2, Compends; 520.3, Dictionaries; 520.4, Essays; 520.5, Periodicals; 520.6, Societies; 520.7, Study and Teaching of Astronomy; 520.8, Collections, etc.; 520.9, History of Astronomy. See Note under Natural Science in General, 500-509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, specially of the Solar System. The motions of individual bodies are classed under separate heads in 523.

.1 **Celestial Dynamics.**

.11 General Laws of Equilibrium and Motion. See also 531.2.
.12 Law of Universal Gravitation and Motion Relative to the Sun. See also 531.51.
.13 Problem of Three Bodies.
.14 Figures of Heavenly Bodies.
.15 Rotation of Heavenly Bodies.

.2 **Geocentric and Heliocentric Place.**

.21 Plane of Orbit in Space.
.22 Position of Orbit in its Plane.
.23 Position of Body in its Orbit.
.24 Position of Body in Space.
.25 Heliocentric Longitude and Latitude.
.26 Geocentric Longitude and Latitude.
.27 Variations of Right Ascension and Declination.
.28 Variations of Longitude and Latitude.
.29

.3 **Orbits.**

.31 Definitions of Orbits.
.32 Determination from Three Observations.
.33 Determination from Four Observations.
.34 Variation of Elements of Orbit.
.35 Correction of Approximate Elements of Orbit.
.36 Application of Method of Least Squares.
.37 Kepler's Problem.
.38 Equation of Center and Radius Vector.
.39

.4 **Perturbations.**

.41 Mutual Action of Planets.
.42 Action of Satellites.
.43 Non-Sphericity of Planets.
.44 Resisting Medium.

.5 **Theory of Planets.**

.6 **Theory of Satellites.**

.7 **Theory of Comets.**

.8 **Theory of Eclipses.**

.9 **Precession and Nutation.** See 522.95-6.

522 Practical and Spherical.

.1 Observatories.

.11 General Plan, Location
.12 Material and Mechanism of Dome, Drum, etc.
.13 Transit Buildings, Wings, etc.
.14 High Altitude Observatories.
.15 Portable.
.16
.17
.18
.19 History Reports and Serial publications of Observatories

.2 Telescopes. See 535.83, Optics.

.21 Reflecting.
.22 Refracting.
.23 Eye Piece and Accessories.
.24 Object Glass.
.25 Mounting, Tube, etc.
.26 Equatorial Mounting.
.27 Transit Mounting.
.28 Observing Chairs, etc.
.29 Famous Telescopes.

.3 Meridional Instruments.

.31 Finding Meridian Line.
.32 Mural Circles.
.33 Meridian Circles.
.34 Transit, Placing in Position.
.35 Collimation Constant
.36 Level Constant.
.37 Azimuth Constant.
.38 Other Constants, Flexure, Index Error, etc.
.39

.4 Extra Meridional Instruments.

.41 Sextant and Quadrant, Reflecting Circle, Astrolabe
.42 Alt-azimuth.
.43 Zenith Telescope.
.44 Transit out of Meridian.
.45 Heliometer.
.46 Equatorial.
.47 Prime Vertical.
.48
.49

.5 Auxiliary Instruments.

.51 Sidereal Clock and Chronometer
.52 Electro-Chronograph.
.53 Micrometers.
.54 Personal Equation Machine. See 522.97.
.55 For Illumination.
.56 For Solar Observation.
.57 Artificial Horizons.
.58 Heliostat.
.59

.6 Auxiliary Observations.

.61
.62 Photometry. See 535.2, Optics.
.63 Photography. See 535.85, Optics; 770, Photography.
.64
.65 Polarization. See 535.5, Optics.
.66
.67 Spectroscopy. See 535.84, "
.68
.69

.7 Spherical Astronomy. See also 514.6.

.71 Celestial Sphere. Spherical Co-ordinates.
.72 Rectangular Co-ordinates.
.73 Transformation of Co-ordinates.
.74 Differential Variations of Co-ordinates.
.75 Interpolation.
.76 Meridian Line. Variation of Compass.
.77 Reduction of Observations to the Meridian.
.78 Use of Globes.
.79

.9 Corrections.

.91 Parallax.
.92 Refraction. See 535.3, Optics.
.93 Semi-Diameter of Celestial Bodies.
.94 Aberration.
.95 Precession. See 521.9.
.96 Nutation. " "
.97 Personal Equation. See 522.54.
.98 Instrumental Errors.
.99

523 Descriptive Astronomy.

.1 Universe.

.11 Structure of Universe.
.12 Nebular Hypothesis.
.13 Plurality of Worlds.
.14 Space and its Temperature.
.15 Resisting Medium.
.16 Cosmic Dust.
.17 Repulsive Force.

.2 Solar System.

.21 Distributive Laws of Planets.
.22
.23 Conjunctions and Oppositions.
.24 Motion of Solar System in Space.
.25 Constitution of Planetary System.
.26 Stability of Solar System. Ecliptic.
.27
.28 Orrery, Planetarium, Gyroscope, etc. See 531.34, Rotation.
.29 Zodiac.

.3 Moon.

.31 Constants (Size, Mass), Distance and Parallax.
.32 Heat and Light. Phases.
.33 Orbit and Motions: Sidereal Month, Tropical, Perigee and **Apogee, Sun** and Earth's Attraction, Librations. See also 521.6 for **Orbit.**
.34 Features of Surface, Mountains, Plains, etc.
.35 Atmosphere.
.36 Physical Condition.
.37 Spectrum.
.38 Eclipses.
.39 Charts, Photographs, etc.

.4 Planets.

.41 Mercury and intra-Mercurial.
.42 Venus.
.43 Mars.
.44 Asteroids.
.45 Jupiter.
.46 Saturn.
.47 Uranus.
.48 Neptune and trans-Neptunian.
.49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.

.51 Aerolites.
.52 Fire-balls.
.53 Meteoric Showers, Radiant Points, etc.
.54 Systems of Meteors.
.55
.56 Connection of Comets and Meteors.
.57 Spectrum.
.58 Hight of Atmosphere from Observation.
.59 Zodiacal Light. Aurora Borealis.

523.6 Comets.

.61 Appearance and Development.
.62
.63 Orbits.
.64 Remarkable Comets.
.65
.66 Physical Constitution
.67 Spectrum.
.68
.69 Charts, Photographs, etc.

.7 Sun.

.71 Constants, Dimensions.
.72 Heat and Light: Theories as to Source.
.73 Apparent Motion. Rotation. See 525.38, Tables.
.74 Spots, Faculæ, and Other Features of Surface.
.75 Prominences, Chromosphere. Corona.
.76 Theories of Physical Constitution.
.77 Spectrum.
.78 Eclipses.
.79 Charts, Photographs, etc.

.8 Stars.

.81 Stellar Parallax, Distance.
.82 Heat and Light. Photometric Observations. Magnitude. Visibility.
.83 Proper Motion, Star-drift.
.84 Variable, Double, and Multiple Stars.
.85 Clusters and Nebulæ.
.86 Physical Constitution.
.87 Spectrum.
.88
.89 Constellations, Maps, etc.

.9 Transits and Occultations.

.91 Transits of Mercury.
.92 Transits of Venus and Solar Parallax.
.93 Delisle's Method.
.94 Halley's Method.
.95 Photographic Method.
.96 Transits of Venus to 1874.
.97 Transit of 1882.
.98
.99 Occultations.

[524 Maps, Observations, and Tables.

Series of observatory publications may be kept together under 524, or under 522.19 with the History and Reports of the Observatory. Special maps or observations e.g. on Sun or Moon are better placed in sub-sections 9 *under these heads*, with Charts and Photographs, e.g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep *all* Maps and Observations together.

.3 Of Moon. See also 523.39.
.4 Of Planets. See also 523.49.
.5
.6 Of Comets. See also 523.69.
.7 Of Sun. See also 523.79.
.8 Star Catalogues. See also 523.89.]

525 Earth.

.1 Constants.

.11 Mass. Weight.
.12 Density.
.13 Dimensions, Diameter.
.14 Figure. Geomorphy. Equatorial Belt.
.15 Distance from Sun.
.16 Parallax.

.2 Heat. Light.

.3 Orbits and Motions.

.31 Period of Revolution.
.32 Obliquity of Ecliptic to Equator.
.33 Eccentricity.
.34 Perturbations.
.35 Rotation.
.36 Foucault's Pendulum.
.37 Deviation of Falling Bodies and Projectiles.
.38 Tables of the Sun. Apparent Motion. See 527.73, Sun.

.4 Geographical Co-ordinates.

.41 Finding Latitude. See also 527.1.
.42 By Meridian Altitudes.
.43 By Pole Star.
.44 By Altitude of two or more Stars.
.45 By Other Methods.
.46 Finding Longitude. See also 527.2.
.47 Terrestrial Means. Chronometers. Telegraph. Signals.
.48 Celestial Signals. Eclipses. Occultations. Transits.
.49 Lunar Methods.

.5 Seasons.

.51 Effect of Inclination of Equator to Ecliptic.
.52 Effect of Eccentricity of Earth's Orbit.
.53 Secular Changes of Seasons.
.54 Seasons on Mars and Other Planets.

.6 Tides.

.61 Mathematical Theory.
.62 Effect of Sun and Moon in Producing Tides.
.63 Distribution, Diurnal Inequality, Spring and Neap, Priming and Lagging.
.64 Establishment of a Port. Coast Form Modification.
.65 Velocity of Hight of Tide Wave.
.66 Tides on Inland Seas.
.67 Supposed Effect in Retarding Earth's Revolution.
.68 Tide Registering and Predicting Machines.
.69 Tide Tables.

.7 Twilight.

526 Geodesy.

.1 Theory and Determination of Earth's Figure.

.11 Potentials of Ellipsoids.
.12 Equilibrium of Rotating Spheroid.
.13 Law of Ellipticity.
.14 Airy's and Pratt's Theories as to Attraction of Mountains.
.15 Determination of Figure by Airy, by Bessel, and by Clarke.
.16 Ellipsoidal Figure and Position of Axes..
.17 Geoidal Figure.
.18
19.

.2 Base Measuring and Apparatus.

.21 Standards of Length and Temperature.
.22 Apparatus of Struve, Bessel, Colby, U. S. Coast Survey, U. S. Lake Survey, etc.
.23 Adjustments of Apparatus.
.24 Location of Base Line.
.25 Field Operations.
.26 Calculation of Results and Corrections.
.27 Verification.
.28
.29

.3 Field Work of Triangulation.

.31 Reconnaissance.
.32 Stations: Names, Signals, Tripods, Scaffolds and Towers, Surface and Underground Monuments.
.33 Observations, Instruments and Records.
.34 Reduction to Station's Center.
.35 Corrections for Phase of Signal and Eccentricity.
.36 Spirit Levelling.
.37 Barometric Levelling.
.38 Trigonometric Levelling.
} These are methods. See 551.53, for results, lists of hights, etc.
.39

.4 Computation of Triangulation.

.41 Spherical Excess.
.42 Legendre's Theorem.
.43 Chord Process.
.44 By Spherical Trigonometry.
.45 By Spheroidal Trigonometry. See also application of Least Squares, 522.5.

.46 L. M. Z. Formulæ and Applications.

.47 Direct Deduction by Bessel.
.48 Deduction by Puissant.
.49 Tables for Computation.

526.5 **Theory of Least Squares in Adjustment of Figures, etc.**

.51 Method of Independent Angles.
52 Adjustment of a Quadrilateral.
.53 Adjustment of Triangulation Net.
.54 Method of Directions.
.55 Adjustment for Closure of a Circuit.
.56 Method of Repetitions.
.57 Adjustments of Base Measures.
.58 Adjustments of Levelling.

.6 **Astronomic Determinations and their Connection with Geodetic Results.**

.61 Latitude Determinations.
.62 Longitude Determinations.
.63 Azimuth Determinations.
.64 Effect of Irregularities of Earth's Surface on Latitude, Longitude and Azimuth.
.65 Effect of same on Angles of Triangle.

.7 **Gravity Experiments and Results.**

.71 Mathematical Theory.
.72 Pendulum Apparatus.
.73 Pendulum Operations.
.74 Corrections.
.75 Reduction of Results.

.8 **Map Projections.** See 515.5, Spherical projections.

.81 Perspective Projections.
.82 Orthomorphic Projections.
.83 Development Projections.
.84 Zenithal Projections.
.85 Equivalent Projections.

.9 **Surveying.**

.91 Instruments and Methods. See 526.2.
.92 Measurement of Distances.
.93 Measurement of Angles.
.94 Measurement of Heights.
.95 Levelling. See 526.36–38.
.96 Plotting.
.97 Computation of Areas.
.98 Topographical Drawing.
.99 For Special Purposes. Military, Naval, Railroad, Mining, etc.

527 Navigation.

.1 **Finding Latitude at Sea.** See also 525.41.
.2 **Finding Longitude at Sea.** See also 525.46.
.3 **Finding Time at Sea.** See also 529.74.
.4 **Sumner's Method.**
.5 **Great Circle Sailing.**
.6
.7
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.9

528 Ephemerides.

.1 **American.**
.2 **English.**
.3 **German.**
.4 **French.**
.5 **Italian.**
.6 **Spanish.**
.7 **Slavic.**
.8 **Scandinavian.**
.9 **Construction of Ephemeris.**

529 Chronology.

.1 **Sidereal and Solar Day:** Apparent and Mean Time, Equation of Time, Causes of Inequality.
.2 **Solar Year, Months.**
.3 **Calendars.** Including early and Oriental.
.4 **Calendar of Julius Cæsar.**
.5 **Calendar of Gregory.**
.6 **Ecclesiastical Calendar. Determination.**
For feasts, etc., and calendars themselves, see 264.021, 264.031, etc.
.7 **Horology.**

.71 Finding Time by Transit.
.72 Finding by Equal Altitudes.
.73 Finding by Single Altitude.
.74 Finding by Sextant. See also 527.3.
.75 Time Systems, and Standards.
.76 Distribution of Time.
.77 Cosmic Time.
.78 Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc
See 522.51 for Sidereal Clocks and Chronometers.
See 681 for Clock and Watch making.
.79

530 Physics.

Like Science in General, viz.:

General works only are arranged: 530.1, Philosophy; .2, Compends; .3, Dictionaries; .4 Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching, Experiments; .8, Physical Units, Measuring Instruments; .9, History.

531 Mechanics.

.1 **Pure Motion. Kinematics.**

.2 **Statics. Graphical statics.**

.21 Force and its Measure.
.22 Composition of Forces and Motions.
.23 Moments.
.24 Parallel Forces. Centre of Gravity.

.3 **Dynamics. Kinetics.**

.31 Rectilinear Motion.
.32 Vibration.
.33 Undulation.
.34 Rotation.
.35 Centrifugal and Centripetal Force.

.4 **Work. Friction.** See 621.89, Lubrication.

.41 Unit of Work.
.42 Diagram of Work.
.43 Laws of Friction. Modulus of Machines.
.44 Sliding Friction.
.45 Rolling Friction.

.5 **Gravity.**

.51 Law of Universal Gravitation.
.52 Laws of Falling Bodies.
.53 Pendulum.
.54 Mass, Density, etc.
.55 Projectiles.
.56
.57
.58 Apparatus for Illustration.

.6 **Conservation of Energy.**

.7

.8 **Machines. Transmission of Force.**

.81 Lever and Balance.
.82 Wheel and Axle.
.83 Cord and Catenary.
.84 Pulley.
.85 Inclined Plane.
.86 Wedge.
.87 Screw.
.88

.9 **Tables. Problems. Questions.**

532 Liquids. Hydrostatics. Hydraulics.

.1 **Properties of Liquids. Pressure.**

.2 **Equilibrium of Liquids.**

.3 **Buoyant Effects. Floating Bodies.**

.4 **Specific Gravity. Hydrometer.**

.5 **Liquids in Motion.**

.51 Theoretical Flow.
.52 Orifices, Adjutages. Fluid Vein.
.53 Weirs, Overfalls.
.54 Pipes, Open Channels, Rivers.
.55 Bends, Valves, sudden enlargements and contractions.
.56 Efflux; variable pressure.
.57 Hydrometry. Velocity.
.58 Impulse and Resistance.
.59 Theory of Waves.

.6 **Capillary Attraction.**

.7 **Osmose. Absorption.**

.8 **Applications. Machines.** See 621.2, Water engines.

Except for libraries making Physics much more prominent than Useful Arts, all the "Applications" will be more useful under their proper heads in Useful Arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division.

.81 Hydraulic Press.
.82 Hydraulic Engine.
.83 Water Ram.
.84 Water Wheels.
.85 Water Blast.

.9 **Tables. Problems. Questions.**

533 Gases. Pneumatics.

.1 **Properties of Gases and Vapors.**

.2 **Laws of Compressibility.**

.3 **Atmosphere.**

.4 **Barometer.**

.5 **Air Pump**

.6 **Aeronautics.**

.7 **Kinetic Theory of Gases.**

.8 **Applications.** See 621.6, Blowing and Pumping engines.

Preferably go in Useful Arts, see 532.8, Note.

.82 Manometer. Pressure Gauges See 621.18, Steam generation.
.83 Condensing Pump.
.84 Force Pump.
.85 Suction Pump.
.86 Diving Bell.
.87 Forge Bellows.
.88 Pneumatic Dispatch.

.9 **Tables. Problems. Questions.**

534 Sound. Acoustics.

.1 **Theory. Undulations.**

.2 **Propagation of Sound. Velocity. Diffraction.**

.3 **Musical Sound. Tuning Forks.** See also 781.1, Theory of Music.

.4 **Analysis of Sounds. Resonators.**

.5 **Superposition of Vibrations.**

.6 **Graphical Representations.**

.7 **Physiological. Ear and Larynx.** See also 611.85, Anatomy; 612.85, Physiology; 612.78, Voice; 617.8, Surgery; 362.1 and .4, Hospitals; 152.2, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81

.82

.83 Signals in Navigation. See also 654.9, Communication.

.84 Applications to Architecture.

.85 Musical Instruments. See also 780, Music.

.86 Phonograph.

.9 **Tables. Problems. Questions.**

535 Light. Optics.

.1 **Theory.**

.2 **Propagation. Velocity. Measurement of Light.**

.3 **Reflection. Refraction. Absorption.** See also 522.92, Astronomy.

.4 **Dispersion. Diffraction. Interference.**

.5 **Polarization. Polariscope. Double Refraction.**

.6 **Color.**

.7 **Physiological. Eye.** See also 611.84, Anatomy; 612.84, Physiology; 617.7, Surgery; 362.1 and .4, Hospitals; 152.1, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81 Lenses.

.82 Microscopes and Magnifiers. See also 578, Microscopy.

.83 Telescopes. See also 522.2, Astronomy.

.84 Spectroscopes and Spectrum Analysis. See also 544.6, Chemistry; 522.67, Astronomy; 523.37, Moon; 523.57, Meteors, etc.

.85 Photography. See also 770.

.86 Other Applications of Lenses.

.87 Mirrors and Reflecting Instruments.

.88 Lighthouses. See also 627.9, Harbor Engineering; 656, Commerce.

.89

.9 **Tables. Problems. Questions.**

536 Heat.

.1 **Theory. Nature.**

.2 **Communication.**

.3 **Action of Bodies on Heat.**

.31 Reflection.

.32 Refraction.

.33 Radiation.

.34 Absorption.

.35 Diathermancy.

.4 **Effects. Action of Heat on Bodies.**

.41 Expansion.

.42 Liquefaction.

.43 Solidification.

.44 Vaporization and Condensation.

.45 Incandescence.

.46 Combustion. Flame.

.5 **Temperature.** See also 551.52, Meteorology; 613.18, Hygiene.

.51 Thermometry.

.52 Pyrometry.

.53 Electric Methods of Measuring.

.6 **Calorimetry.**

.7 **Thermodynamics. Mechanical Equivalent.**

.8 **Applications.** Preferably go in Useful Arts. See 532.8. Note.

.81 Steam Engines. See 621.1, Engineering.

.82 Gas Engines. See 621.43, Engineering.

.83 Heating. See 697, 621.19, 628.8, 644.

.84 Ventilating. See 697, 622.4, 628.8.

.9 **Tables. Problems. Questions.**

537 Electricity.

.1 **Theory. Nature.**

.2 **Statical.**

.21 Quantity, Potential.

.22 Conduction, Distribution

.23 Machines.

.24 Condensers.

.25 Electrometers.

.3

.4 **Atmospheric. Lightning Rods.**

.5 **Dynamical.**

.51 Theory of Coils. Constants.

.52 Induction Spark.

.53 Induction Spark in rarified gases.

537.6 Electro Dynamics.
.7 Electrical Measurements.
.8 Applications. See 621.3. Preferably go in Useful Arts. See 532.8, Note.
.81 Telegraph. See 654.
.82 Telephone. Microphone.
.83 Dynamos. Electric Lighting.
.84 Transmission of Power. Storage.
.85 Electro-Metallurgy.
.86 Galvanometers. Batteries. Coils.
.87 Medicine. See also 615.84.
.88 Electric Signals.
.9 Tables. Problems. Questions.

538 Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 134.

.1 Theory. Properties of Magnets. Lines of Force.
.2 Communication. Induction. Touch.
.3 Electro-Magnetism.
.4 Diamagnetism.
.5
.6
.7 Terrestrial Magnetism.
.8 Applied. Magnetic Machines.
.9 Tables. Problems. Questions.

539 Molecular Physics.

.1 Theory. Molecular Structure. Vortex Rings.
.2 Properties of Solids.
.3 Elasticity. Torsion.
.4 Strength of Materials.
.5 Permanent Displacement of Molecules.
.51 Malleability.
.52 Ductility.
.53 Hardness.
.54 Tempering.
.6 Intermolecular Forces.
.7
.8
.9 Tables. Problems. Questions.

540 Chemistry.

.1, Theories, Alchemy, Phlogiston; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching; .8, Collective Works; .9, History.

541 Theoretical Chemistry.

.1 Thermo Chemistry.
.2 Atoms. Molecules. Atomic Weights. Equivalence.
.3 Chemical Affinity. Combustion.
.4 Salts. Acids. Bases.
.5 Types.
.6 Compound Radicles.
.7 Allotropy. Isomerism.
.8 Solubility. Water of Crystallization.
.9 Classification. Nomenclature. Notation. Formulæ. Stoichiometry. Tables.

542 Practical and Experimental Chemistry.

.1 Laboratory.
.2 Apparatus and Manipulation.
.3 Weighing and Measuring. Specific Gravity.
.4 Heating. Baths. Distillation.
.5 Blowpiping. See 544.3, 549.1.
.6 Solution. Precipitation.
.7 Gas Manipulation. Eudiometer. See 545.7.
.8 Electric and Galvanic Manipulation. See 537.85.
.9 Other Operations.

543 Analysis.

Divided by material analyzed. See also 614.3, Adulterations.

.1 Food and Drink. See also 613.2, Hygiene; 612.39, Nutrition.
.2 Milk.
.3 Water. See also 613.3, Beverages.
.4 Drugs and Medicines.
.5 Poisons.
.6 Rock Analysis.
.7 Special Inorganic Substances. See also 614.771, Analysis of soils.
.8 Special Vegetable Substances.
.9 Special Animal Substances.

544 Qualitative Analysis.

.1 **Wet Method.**
.2 **Dry Method.** See 669.9, Assaying.
.3 **Blowpiping.** See 542.5, 549.1, Mineralogy
.4
.5 **Dialysis.**
.6 **Spectrum Analysis.** See 535.84.
.7 **Polarization.** See 535.5.
.8
.9

545 Quantitative Analysis.

.1 **Gravimetric.**
.2 **Wet Method.**
.3 **Electrolysis.** See 537.85.
.4 **Dry Method.**
For Assaying see 669.9.
.5 **Volumetric.**
.6 **Solutions.**
.7 **Gases. Eudiometry.** See 542.7.
.8 **Colorimetric.**
.9 Synthesis.

546 Inorganic Chemistry.

.1 **Non-Metallic Elements.**

.11 Hydrogen.
.12 **Halogen Group.**
.13 Chlorine.
.14 Bromine.
.15 Iodine.
.16 Fluorine.
.17 **Nitrogen Group.** Nitrogen.
.18 Phosphorus.
.19 Arsenic.
.2 **Oxygen Group.**
.21 Oxygen.
.22 Sulphur.
.23 Selenium.
.24 Tellurium.
.25 **Carbon Group.**
.26 Carbon.
.27 Boron.
.28 Silicon.
.29

546.3 **Metals.**

.31 **Alkali Group.**
.32 Potassium.
.33 Sodium.
.34 Lithium.
.35 Rubidium.
.36 Caesium.
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.38
.39
.4 **Alkaline Earths.**
.41 Calcium.
.42 Strontium.
.43 Barium.
.44 **Magnesium Group.**
.45 Beryllium.
.46 Magnesium.
.47 Zinc.
.48 Cadmium.
.49
.5 **Lead Group.**
.51 Lead.
.52 Thallium.
.55 **Silver Group**
.56 Copper.
.57 Silver.
.58 Mercury.
.59
.6 **Cerium Group.**
.61 Yttrium.
.62 Cerium.
.63 Lanthanum.
.64 Didymium.
.65 Erbium.
.66 Aluminium.
.67 Indium.
.68 Gallium.
.69 Scandium.
7 **Iron Group.**
.71 Manganese.
.72 Iron.
.73 Cobalt.
.74 Nickel.
.75 **Chromium Group.**
.76 Chromium.
.77 Molybdenum.
.78 Tungsten.
.79 Uranium.

546 8 **Tin Group.**
.81 Tin.
.82 Titanium.
.83 Zirconium.
84 Thorium.
.85 **Vanadium Group.** Vanadium.
.86 Antimony.
.87 Bismuth.
.88 Tantalum.
.89 Niobium.
.9 **Platinum Group.**
.91 Gold.
.92 Platinum.
.93 Iridium.
.94 Osmium.
.95 **Ruthenium Group.**
.96 Ruthenium.
.97 Rhodium.
.98 Palladium.
.99

547 Organic Chemistry.

.1 **Cyanogen and its Compounds.**
.2 **Hydrocarbons. Fatty Series.**
.21 Paraffins.
.22 Olefines.
.23 Acetylenes.
.24 Valylene. Dipropargyl, etc.
.25 **Aromatic Series.**
.26 Benzenes.
.27 Diphenyl Group.
.28 Naphthalene. Anthracene. Phenanthrene.
.29 Higher Series.
The seven heads 547.3 to 547.9 are sub-divided like 547.2.
.3 **Alcohols. Phenols.**
.4 **Ethers. Simple. Compound. Haloid.**
.5 **Aldehydes.**
.6 **Ketones. Quinones.**
.7 **Acids. Acid Halides. Acid Anhydrides. Sulpho-acids.**
.8 **Nitro-derivatives. Amines. Compound Ammoniums. Amids. Amic Acids. Azo-bodies. Azoxy-bodies. Hydrazo-bodies. Diazo-bodies.**
.9 **Compounds with Metals.**

548 Crystallography.

.1 **Systems of Crystallization.**
.2 **Twin Crystals. Crystalline Aggregations.**
.3 **Cleavage. Isomorphism. Polymorphism.**
.4 **Irregularities. Internal Imperfections.**
.5 **Formation and Growth of Crystals.**
.6 **Pseudomorphs.**
.7 **Mathematical. Measurement of Angles.**
.8 **Physical.**
.9 **Optical.**

549 Mineralogy.

.01, Philosophy, Classification; .02, Compends; .03, Dictionaries; .04, Essays, Papers, etc.; .05, Periodicals; .06, Societies; .07, Study and Teaching, Museums; .08, Collective Works; .09, History.

.1 **Determinative. Blowpiping.** See also 542.5; 544.3.
.2 **Native Elements.**
.3 **Sulphides, Tellurides, Selenides, Arsenides, Antimonides, Bismuthides.**
.4 **Compounds of Chlorine, Bromine, Iodine, and Fluorine.**
.5 **Oxygen Compounds. Oxids.**
.6 **Silicates.**
.61 Anhydrous.
.65 Hydrous.
.7 **Other Ternary Oxygen Compounds.**
.71 Tantalates. Columbates.
.72 Phosphates. Arsenates. Vanadates. Antimonates. Nitrates.
.73 Borates.
.74 Tungstates. Molybdates. Chromates.
.75 Anhydrous Sulphates.
.76 Hydrous Sulphates.
.77 Tellurates.
.78 Carbonates.
.79 Oxalates.
.8 **Hydrocarbons.**
.9 **Geographical Distribution.**

550 Geology.

550.1, Philosophy, Theories, Geological Time; .2, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

551 Physical and Dynamical Geology.

Including Physical Geography. For Cosmical Geography, see 523.

.1 **Structure of Earth as a Whole.**
- .11 Interior of Earth.
- .12 Internal Heat.
- .13 Earth's Crust.
- .14 Conductivity of Rocks.

.2 **Seismology.**
- .21 Volcanoes.
- .22 Earthquakes.
- .23 Hot Springs, Geysers.
- .24 Oscillations of the Earth's Crust.

.3 **Erosion and Deposition.**
- .31 Glaciers and Glacial Phenomena.
- .32 Moraines.
- .33 Transported Materials, Till.
- .34 Icebergs.
- .35 Aqueous Erosion.
- .36 Coast Changes.
- .37 Aerial Erosion.

.4 **Surface Features of the Earth.**
- .41 Continents.
- .42 Islands.
- .43 Mountains. Valleys. Orology.
- .44 Caves.
- .45 Plains.
- .46 Oceans.
- .47 Ocean Currents.
- .48 Rivers. Lakes.
- .49 Springs. Wells. Ground water.

Division of Oceans for use under .46 and .47.
1, Atlantic. North Sea. Baltic.
2, Mediterranean. Black Sea.
3, Gulf of Mexico. Caribbean.
4, Southern Atlantic.
5, Pacific.
6, Eastern Pacific or American Coast.
7, Indian. Bay of Bengal. Red Sea.
8, Arctic.
9, Antarctic.

.5 **Meteorology.**
- .51 Atmospheric Currents. Winds.
- .52 Thermometry, Heat. See also 536.5, Temperature; 613.18, Hygiene.
- .53 Hypsometry. See 526.36–8 for Methods.
- .54 Barometry, Pressure.
- .55 Storms.
- .56 Climate.
- .57 Moisture. Rainfall. Flow of Streams. Floods.
- .58 Prairies, Forests, and Deserts.

.6 **Metamorphism.**

.7 **Stratigraphical Geology.**
- .71 Archæan.
- .72 Cambrian.
- .73 Silurian. .731, Lower Silurian; .732, Upper Silurian.
- .74 Devonian. Old red sandstone.
- .75 Carboniferous.
- .76 Triassic and Jurassic. Lias. Oolite.
- .77 Cretaceous.
- .78 Tertiary. .781, Eocene. .782, Miocene. .783, Pliocene.
- .79 Quaternary. Postpliocene. Glacial. .791, Recent.

551.8 **Structural Geology.**
- .81 Stratification.
- .82 Curvature and Contortion.
- .83 Ripple Marks and Sun Cracks.
- .84 Joints. Cleavage. Polarity in Rocks.
- .85 Dip. Outcrop. Strike.
- .86 Anticlinal. Synclinal.
- .87 Faults and Folds. Dislocations.
- .88 Veins. Dykes. Necks. Bosses.
- .89

.9 **Agents of Geological Work.**
- .91 Frost.
- .92 Water.
- .93 Atmosphere.
- .94 Chemical Changes. Heat.
- .95 Animals.
- .96 Coral Reefs.
- .97 Plants.
- .98 Segregation and Concretion.
- .99 Other Agents.

552 Lithology, Petrography, Petrology.

.1 **Igneous Rocks.**

.2 **Volcanic Rocks.**
- .21 Lavas. Scoria.
- .22 Volcanic Ashes. Volcanic Tufa. Tuff.
- .23 Obsidian. Pumice. Pitchstone.
- .24 Trachyte.
- .25 Rhyolite.
- .26 Andesite. Dacite. Phonolite.
- .27 Felsites.
- .28 Basalt.
- .29 Other Volcanic Rocks.

.3 **Plutonic Rocks.**
- .31 Porphyry. Porphyrite.
- .32 Syenite.
- .33 Granite.
- .34 Diabase and Gabbro.
- .35 Dolerite.
- .36 Diorite.
- .37 Norite.
- .38 Peridotite.
- .39 Other Plutonic Rocks.

.4 **Metamorphic Rocks.**
- .41 Granites and Syenites.
- .42 Gneiss.
- .43 Schists.
- .44 Slates. Argillite. Phyllite.
- .45 Quartzite. Novaculite. Itacolumite.
- .46 Marble. Crystalline limestone.
- .47 Serpentine.
- .48 Chrysolitic Rocks.
- .49 Other Metamorphic Rocks.

552.5 **Sedimentary Rocks.**

- .51 Sandstone. Conglomerate. Sand. Gravel.
- .52 Shale. Clay Silt.
- .53 Gypsum. Salt.
- .54 Limestone. Marl. Ooze.
- .55 Dolomite.
- .56 Oölite.
- .57 Infusorial or Diatomaceous Earth.
- .58 Glauconite. Greensand.
- .59 Other Sedimentary Rocks.

.6 **Meteorites.**

.7 **Decay of Rocks.**

.8 **Microscopical Petrography.**

- .81 Determination of Rock Minerals.
- .82 Rock Structure.

553 Economic Geology. See also 622.1, Mining engineering.

.1 **Ore Deposits.**

- .11 Formation and Structure.
- .12 Classification.
- .13 Superficial. Placers.
- .14 Stratified. Beds, etc.
- .15 Unstratified.
- .16 Disseminated through eruptive rocks.
- .17 Stockwerks. Fahlbands. Contacts.
- .18 Chambers and Pockets. Impregnations.
- .19 Mineral Veins.

.2 **Carbon Series.**

- .21 Peat.
- .22 Lignite and Jet.
- .23 Cannel Coal. Bituminous Shale.
- .24 Bituminous and Semi-Bituminous Coals.
- .25 Anthracite and Graphitic Anthracite.
- .26 Graphite. Plumbago.
- .27 Asphalt and Asphaltic Coals. Ozocerite.
- .28 Petroleum. Natural Gas.
- .29 Fossil Gums and Resins.

[While the history of all the other products goes here, the history of the metals is more useful in 669, Metallurgy.]

.3 **Ores of Iron.**

.4 **Ores of Metals other than Iron.**

- .41 Ores of Gold.
- .42 Ores of Silver.
- .43 Ores of Copper.
- .44 Ores of Lead.
- .45 Ores of Zinc and Tin. Mercury.
- .46 Ores of Manganese and Chromium
- .47 Ores of Antimony and Arsenic.
- .48 Ores of Nickel and Cobalt.
- .49 Other Metallic Ores.

553.5 **Building Stones.**

- .51 Marbles and Limestones.
- .52 Granites and Syenites.
- .53 Sandstones.
- .54 Slates.
- .55 Serpentines. Soapstones.
- .56 Porphyries.
- .57 Trap.
- .58 Tufa. Peperino.
- .59 Other Building Stones.

.6 **Earthy Economic Minerals.**

- .61 Fire Clays. Brick Clays. Potter's Clays.
- .62 Sands.
- .63 Rock Salt. Gypsum.
- .64 Phosphates. Apatite. Guano. See also 631.
- .65 Emery.
- .66 Heavy Spar. Sulphur.
- .67 Asbestus, etc.
- .68 Limes and Mineral Cements.
- .69 Other Earthy Economic Minerals.

.7 **Mineral Waters.**

- .71 Alkaline.
- .72 Saline.
- .73 Chalybeate, Iron-bearing.
- .74 Sulphuric.
- .75 Calcic.

Divide general works geographically like 930–999; e. g. Mineral waters of Germany, 553. 7043

See also 551.23.

.8 **Gems. Ornamental Stones.**

.9 **Other Economic Minerals.**

554 Geology of Europe. 554–559 subdivided by countries like 940–999.

555 Geology of Asia.

556 Geology of Africa.

557 Geology of North America.

558 Geology of South America.

559 Geology of Oceanica. Polar Regions.

560 Paleontology. Use form divisions as in 550 and divide .9 geographically like 930–999; e. g. Paleontology of Germany is 560.943.

561 Plants. 561 is subdivided like Botany, 580.

562 Invertebrates. 562–569 is subdivided like Zoology, 592 599.

563 Protozoa. Radiates.

564 Mollusks.

565 Articulates.

566 Vertebrates.

567 Fishes. Batrachia.

568 Reptiles. Birds.

569 Mammals.

570 Biology.

570.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

571 Prehistoric Archæology.

For Customs, see 390. For archæology of special countries, see 913.

.1 Paleolithic, or Early Stone Age.

.11 Drift Remains.
.12 Cave Men.
.13 Remains of Animals. Shells.
.14 Chipped Stones.
.15 Flint Flakes. Arrow Heads. Knives, etc.
.16 Other Stone Remains.
.19 Other Remains.

.2 Neolithic, or Late Stone Age.

.21 Stone Quarries.
.22
.23 Remains of Animals.
.24 Polished Stones.
.25 Sharpened Stones. Celts. Tools. Weapons.
.26 Perforated Stones. Spindles. Net Sinkers. Pipes.
.27 Hollowed Stones. Mortars. Cups. Food Vessels.
.28 Other Stone Remains.
.29 Other Remains.

.3 Bronze Age.

.31 Ancient Copper and Tin Mining.
.34 Bronze Remains.
.35 Tools. Weapons, etc.
.37 Cups. Vessels.
.39 Other Remains.

.4 Iron Age.

.5 Other Remains.

.51 Implements of Wood.
.52 Implements of Bone.
.53 Basket Work.
.54 Textile Fabrics.
.55 Pottery.
.56 Glass.
.6

.7 Rudiments of Art. Ornaments.

.71 Drawings.
.72 Paint.
.73 Sculptures.
.74 Beads.

.8 Dwellings.

.81 Natural Caves.
.82 Earth Houses. Pit Dwellings. Weems.
.83 Lake Dwellings. Crannoges.
.84 Cliff Dwellings.
.85 Pueblos.
.86 Tents as Dwellings.

571.9 Mounds and Monuments.

.91 Mounds and Mound Builders.
.92 Grave Mounds.
.93 Kitchen Middens. Shell Banks
.94 Monoliths. Cromlechs.
.95 Circles. Labyrinths.
.96 Cairns.
.97
.98
.99

572 Ethnology. Anthropology.

See also 136.4, Mental race characteristics.

.1 Unity of the Human Race.
.2 Diversity of Races.
.3 Migrations of Men.
.4 Original Home of Man. Eden, Atlantis, etc.
.5
.6
.7
.8 Races divided by Language like 400.
.9 Races divided by Countries like 930-999.

Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural History of Man.

.1 Man's Place in Nature.
.2 Origin of Man.
.3 Antiquity of Man.
.4 Influence of Climate and Surroundings.
.5 Color in Man.
.6 Anthropometry.
.7 Craniology.
.8 Dwarfs and Giants.
.9 Monstrosities. See also 613.91, Congenital defects; 617.3, Deformities.

574 Homologies.

575 Evolution.

See also 213, Creation; 215, Religion and Science; 239.3, Apologetics.

.1 Heredity. See also 136.3, Mental; 233.3, Moral; 129.2, Origin of soul.
.2 Variation. See also 591.15, Physiological zoölogy.
.3 Environment. See also 136.2, Mental; 573.4.
.4 Natural Selection.
.5 Sexual Selection.
.6 Development. Survival of the Fittest.
.7 Degeneration.
.8 Origin of Species.
.9 Origin of Sexes. See also 591.36, Embryology.

576 Origin and Beginnings of Life.

.1 Spontaneous Generation.
.2 Protoplasm. Bioplasm.
.3 Cells.
.4 Beginnings of Motion and Sensation.
.5
.6

577 Properties of Living Matter.

.1 Chemical. Difference between Organic and Inorganic.
.2 Life. Difference between Dead and Living Matter.
.3 Difference between Vital and Physical Phenomena.
.4 Conditions of Life. Moisture. Temperature.
.5 Difference between Plants and Animals.
.6 Vital Force.
.7 Death.
.8 Sex in Nature.
.9

578 Microscopy. See also 535.82, Optics.

.1 Varieties of Microscopes.
.2 Optical Parts.
.3 Mechanical Parts.
.4 Accessory Apparatus and Management of Microscope.
.5 Illuminating Apparatus.
.6 Preparation and Mounting of Objects.
.7 Special Preparation and Study of Inorganic Material.
.8 " Botanical Material. See 581.8, Histology.
.9 " Zoological Material. 591.8, "

579 Collectors' Manuals.

.1 Preparing Skeletons.
.2 Preservatives and Hardening Fluids.
.3 Injections.
.4 Taxidermy.
.5 Mounting Specimens.
.6 Collecting.
.11, Alluring; Bait, Light, etc. .12, Hunting; Nets, Collecting bottle, etc. .13, Killing. .14, Exchange. Purchase. .15, Rearing. .16, Transporting.
.7 Arrangement of Specimens in Museums.
.71, Cabinets. .72, Labels.
.8 Preservation of Specimens.
.81, Museum Pests. .82, Pestifuges. .83, Prevention of moisture. .84, Retention of colors.
.9

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching, Herbariums, Botanic Gardens; .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

.1 Physiology.
.2 Pathology. Teratology.
.21 Diseases.
.22 Teratology.
.23 Parasites.
.3 Embryology. Germination.
.4 Morphology. Comparative Anatomy.
.5 Habits.
.6 Economic.
.7 Organography. Descriptive Anatomy.
.8 Histology. See 578.8.
.9 Geographical.
.91 Distribution of Plants.

.93–99 is subdivided like 930–999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97, but No. Am Phanerogamia goes with 581.97 because it so completely covers the subject.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoölogy numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoölogy as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoölogy the only change is from 59 to 56 for first two figures, except in 591 which cannot change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.97.

582 Phanerogamia See also Trees 715.

The sub-sections below are taken from the recognized authority, Bentham and Hooker's Genera Plantarum.

583 Dicotyledonæ

.1 Polypetalæ.
.11 Ranales.
.111 Ranunculaceæ.
.112 Dilleniaceæ.
.113 Calycanthaceæ.
.114 Magnoliaceæ.
.115 Anonaceæ.
.116 Menispermaceæ.
.117 Berberideæ.
.118 Nymphæaceæ.

583.12 **Parietales.**
.121 Sarraceniaceæ.
.122 Papaveraceæ.
.123 Cruciferæ.
.131 Capparideæ.
.133 Resedaceæ.
.134 Cistineæ.
.135 Violarieæ.
.137 Canellaceæ.
.138 Bixineæ.
.14 **Polygalineæ.**
.141 Pittosporeæ.
.142 Tremandreæ.
.143 Polygaleæ.
.145 Vochysiaceæ.
.15 **Caryophyllineæ.**
.151 Frankeniaceæ
.152 Caryophylleæ.
.153 Sileneæ.
.154 Alsineæ.
.155 Polycarpeæ.
.156 Portulaceæ.
.158 Tamariscineæ.
.16 **Guttiferales.**
.161 Elatineæ.
.162 Hypericineæ.
.163 Guttiferæ.
.166 Ternstrœmiaceæ.
.167 Dipterocarpeæ.
.168 Chlænaceæ.
.17 **Malvales.** Malvaceæ.
.18 Sterculiaceæ.
.19 Tiliaceæ.
.21 **Geraniales.**
.211 Lineæ.
.213 Humiriaceæ.
.214 Malpighiaceæ.
.221 Zygophylleæ.
.223 Geraniaceæ.
.23 Rutaceæ.
.241 Simarubeæ.
.245 Ochnaceæ.
.247 Burseraceæ.
.251 Meliaceæ.
.255 Chailletiaceæ.

583.26 **Olacales.**
.261 Olacineæ.
.269 Ilicineæ.
.27 **Celastrales.**
.271 Celastrineæ.
.274 Stackhousieæ.
.275 Rhamneæ.
.279 Ampelideæ.
.28 **Sapindales.**
.281 Sapindaceæ.
.291 Sabiaceæ.
.292 Anacardiaceæ.
.297 **Anomola.**
.298 Coriarieæ.
.299 Moringeæ.
.3 **Rosales.**
.31 Connaraceæ.
.32 Leguminosæ.
.37 Rosaceæ.
.38 Saxifrageæ.
.39 Crassulaceæ.
.393 Droseraceæ.
.394 Hamamelideæ.
.396 Bruniaceæ.
.398 Halorageæ.
.4 **Myrtales.**
.411 Rhizophoreæ.
.414 Combretaceæ.
.42 Myrtaceæ.
.43 Melastomaceæ.
.441 Lythrarieæ.
.445 Onagrarieæ.
.45 **Passiflorales.**
.451 Samydaceæ.
.453 Loaseæ.
.455 Turneraceæ.
.456 Passifloreæ.
.461 Cucurbitaceæ.
.468 Begoniaceæ.
.469 Datisceæ.
.47 **Ficoidales.**
.471 Cacteæ.
.475 Ficoideæ.
.48 **Umbellales.**
.481 Umbelliferæ.
.491 Araliaceæ.
.497 Cornaceæ.

583.5 Gamopetalæ.

.51 **Rubiales.** Caprifoliaceæ
.52 Rubiaceæ.
.53 **Asterales.**
.531 Valerianeæ.
.541 Dipsaceæ.
.546 Calycereæ.
.55 Compositæ.
.57 **Campanales.** Stylidieæ.
.58 Goodenovieæ.
.59 Campanulaceæ.
.6 **Ericales.**
.61 Vacciniaceæ.
.62 Ericaceæ.
.63 Monotropeæ
.64 Epacrideæ.
.65 Diapensiaceæ.
.66 Lennoaceæ.
.67 **Primulales.**
.671 Plumbagineæ.
.672 Primulaceæ.
.677 Myrsineæ.
.68 **Ebenales.**
.681 Sapotaceæ.
.685 Ebenaceæ.
.686 Styraceæ
.7 **Gentianales**
.71 Oleaceæ.
.716 Salvadoraceæ.
.72 Apocynaceæ.
.73 Asclepiadeæ.
.74 Loganiaceæ
.75 Gentianeæ.
.76 **Polemoniales.**
.761 Polemoniaceæ.
.764 Hydrophyllaceæ.
.77 Boragineæ.
.78 Convolvulaceæ.
.79 Solanaceæ.
.8 **Personales.**
.81 Scrophularineæ.
.821 Orobanchaceæ.
.825 Lentibularieæ.
.829 Columelliaceæ.
.83 Gesneraceæ.
.84 Bignoniaceæ.
.85 Pedalineæ.
.86 Acanthaceæ.
.87 **Lamiales.**
.871 Myoporineæ.
.876 Selagineæ.
.88 Verbenaceæ.
.891 Labiatæ.
.899 **Ordo anomalus.** Plantagineæ.

583.9 Apetalæ.

.91 **Curvembryeæ.**
.911 Nyctagineæ.
.912 Illecebraceæ.
.913 Amarantaceæ.
.914 Chenopodiaceæ.
.915 Phytolaccaceæ.
.916 Batideæ.
.917 Polygonaceæ.
.92 **Multiovulatæ Aquaticæ.**
.921 Podostemaceæ.
.922 **Multiovulatæ Terrestres.** Nepenthaceæ
.923 Cytinaceæ.
.924 Aristolochiaceæ.
.925 **Micrembryeæ.** Piperaceæ.
.926 Chloranthaceæ.
.927 Myristiceæ.
.928 Monimiaceæ.
.93 **Daphnales.**
.931 Laurineæ.
.932 Proteaceæ.
.933 Thymelæaceæ.
.934 Penæaceæ.
.935 Elæagnaceæ.
.94 **Achlamydosporeæ.**
.941 Loranthaceæ.
.943 Santalaceæ.
.947 Balanophoreæ.
.95 **Unisexuales.**
.951 Euphorbiaceæ.
.961 Balanopseæ.
.962 Urticaceæ.
.971 Platanaceæ.
.972 Leitnerieæ.
.973 Juglandeæ.
.974 Myricaceæ.
.975 Casuarineæ.
.976 Cupuliferæ.
.98 **Anomali.**
.981 Salicineæ.
.983 Lacistemaceæ.
.984 Empetraceæ.
.987 Ceratophylleæ.

584 Monocotyledonæ.

.1 **Microspermeæ.**
.11 Hydrocharideæ.
.13 Burmanniaceæ.
.15 Orchideæ.
.2 **Epigyneæ.**
.21 Scitamineæ.
.22 Bromeliaceæ.
.23 Hæmodoraceæ.
.24 Irideæ.
.25 Amaryllideæ.
.26 Taccaceæ.
.27 Dioscoreaceæ.
.3 **Coronarieæ.**
.31 Roxburghiaceæ.
.32 Liliaceæ.
.34 Pontederiaceæ.
.35 Philydraceæ.
.36 Xyrideæ.
.37 Mayaceæ.
.38 Commelinaceæ.
.39 Rapateaceæ.
.4 **Calycineæ.**
.41 Flagellarieæ.
.45 Juncaceæ.
.5 Palmæ.
.6 **Nudifloreæ.**
.61 Pandaneæ.
.62 Cyclanthaceæ
.63 Typhaceæ.
.64 Aroideæ.
.68 Lemnaceæ.
.7 **Apocarpeæ.**
.71 Triurideæ.
.72 Alismaceæ.
.74 Naiadaceæ.
.8 **Glumaceæ.**
.81 Eriocauleæ.
.82 Centrolepideæ.
.83 Restiaceæ.
.84 Cyperaceæ.
.9 Gramineæ.

585 Gymnospermæ.

.1 **Gnetaceæ.**
.2 **Coniferæ.**
.9 **Cycadaceæ.**

586 Cryptogamia.

587 Pteridophyta.

.1 **Isoeteæ.**
.2 **Equisetæ.**
.3 **Filicinæ.**
.9 **Lycopodinæ.**

588 Bryophyta.

.1 **Sphagna.**
.2 **Musci.**
.3 **Hepaticæ.**
.4 **Characeæ.**

589 Thallophyta.

.1 **Lichenes.**
.11 **Basidiolichenes.**
.15 **Ascolichenes.**
.16 Angiocarpæ.
.17 Gymnocarpæ.
.18 Gelatinosæ.
.19 Byssaceæ.
.2 **Fungi.**
.21 **Carposporeæ.**
.22 Basidiomycetes.
.221 Gasteromycetes.
.222 Hymenomycetes.
.224 Tremellinæ.
.225 Uredineæ.
.227 Ustilagineæ.
.229 Entomophthoreæ.
.23 Ascomycetes.
.231 Tuberaceæ.
.233 Discomycetes.
.235 Pyrenomycetes.
.238 Gymnoasceæ.
.24 **Oosporeæ.**
.25 Peronosporeæ.
.26 Saprolegnieæ.
.27 **Zygosporeæ.**
.28 Zygomycetes.
.29 Myxomycetes.
.3 **Algæ.**
.4 **Carposporeæ.**
.41 Florideæ.
.47 Coleochaeteæ.
.5 **Oosporeæ.**
.6 **Zygosporeæ.**
.61 Conjugateæ.
.67 Zoosporeæ.
.7 **Protophyta.**
.8 **Chlorophyllaceæ.**
.9 **Achlorophyllaceæ.**
.91 Saccharomycetes. Yeast.
.95 Schizomycetes. Bacteria. Microbes.

See also 614.41, Origin of infectious diseases; 616.01, Germ theory of disease.

590 Zoology.

590.1, Philosophy, Classification; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Zoological Gardens, Aquaria, Museums; .8, Collective Works; .9, History.

591 Physiological Zoology.

.1 Physiology.

.11 Circulation.

.12 Respiration.

1, Nature; 2, Dermal; 3, Aquivascular; 5, Branchial; 6, Tracheal; 7, Pulmonary; 9, Exhalation of Aqueous Vapor.

.13 Nutrition.

1, Acquisition of food; 2, Digestion of Food; 3, Assimilation of Food; 4, Growth; 5, Development; 6, Repair of Waste; 7, Production of Organic Material; 8, Conditions of Nutritive Activity; 9, Longevity, Vitality.

.14 Secretion and Excretion.

1, Mucous and Sebaceous; 2, Sericeous; 3, Digestive, salivary, gastric, pancreatic; 4, Odoriferous, sweet, etc.; 5, Poisonous, gall-formation, caprification; 6, Mammary, spermatic; 7, Lachrymal; 8, Biliary; 9, Urinary and Fecal.

.15. Variation. See also 575.2, Evolution.

1, Polymorphic; 2, Geographic; 3, Heterophagic; 4, Polygoneutic; 5, Mimetic; 6, Sexual; 7, Colorational; 8, Hybrids; 9, Monstrosities.

.16 Generation.

1 Abiogenesis; 2, Parthenogenesis, neuters; 3, Metagenesis, pædogenesis, nurses; 5, Fission and Gemmation; 6, Fecundation; 7, Hermaphrodites, 8, Vivipara; 9, Superfœtation.

.17 Histogenesis.

1, Development of Sperm-cells; 2, Development of Germ-cells, micropyle, 9, Reparation of Wounds.

.18 Nervous Functions and Sensation.

.19 Physiological chemistry.

.2 Pathology.

.3 Embryology.

.33. Development of Embryo; .34, Metamorphosis, larva, pupa, moulting; .35. Hypermetamorphosis; .36, Production of Sexes. See also 575.9, Origin of sexes.

.4 Morphology. Comparative Anatomy.

.41 Circulatory Organs.

.42 Respiratory Organs.

.43 Nutritory Organs.

.44 Secretory and Excretory Organs.

.45

.46 Generatory Organs.

.47 Motory Organs.

.48 Nervous System.

.49 Integument. Dermoskeleton. Skeleton.

.5 Habits and Behavior.

.51 Instinct. Reason.

.52 Abode. Migration.

.53 Food.

.54 Seasons. Hibernation.

.55 Sociability.

.56 Philoprogenitiveness. Breeding.

.57 Means of Protection. Fascination.

.58

.59 Other Habits.

591.6 Economic.

.61 Usefulness.

.62 In Nature.

.63 As Food and Medicine for Man.

.64 In Chemistry and Manufactures.

.65 Noxiousness.

.66 Offensive Animals.

.67 Animals causing Diseases.

.68 Injuring Vegetable and Animal Products and Inorganic Substances.

.69 Injuring Living Plants and Animals. Parasites.

.7 Organography. Descriptive Anatomy.

Subdivided like 591.4, Morphology.

.8 Histology. See also 578.9, Microscopical zoölogy.

.9 Geographical Distribution of Animals.

Subdivided like 930–999, using .92 for ocean.

592 Invertebrates.

593 Protozoans. Radiates.

.1 Protozoans.

.11 Rhizopoda.

.12 Foraminifera.

.13 Heliozoa.

.14 Radiolaria. Polycystina.

.15 Infusoria.

.16 Flagellata.

.17 Ciliata.

.18

.19 Gregarinidæ.

.2 Radiates.

.3 Cœlenterata. Acalepha (old use of term, now limited to 593.73).

.4 Sponges. Porifera. Spongia.

.5 Cnidaria.

.6 Actinozoa. Polyps. Corals and Sea Anemones.

.61 Rugosa. Tetracorolla.

.62 Alcyonaria. Octocorolla.

.63 Zoantharia. Hexacorolla.

.64 Antipatharia.

.65 Actinaria.

.66 Madreporaria.

.7 Hydrozoa.

.71 Hydromedusæ.

.72 Siphonophora.

.73 Acalepha.

.74 Calycozoa.

.76 Marsupialida.

.77 Discophora. Jelly Fish.

.8 Ctenophora. Jelly Fish.

593·9 Echinodermata.
·91 Crinoidea. Sea Lilies.
·92 Asteroidea. Star Fish.
·93 Stelleridea.
·94 Ophiuridea.
·95 Echinoidea. Sea Urchins.
·96 Holothuroidea. Sea Cucumbers.
·97 Pedata.
·98 Apoda.
·99 Enteropneusta.

594 Mollusks.

.1 Lamellibranchiata. Bivalves.
.2 Scaphopoda.
·3 Gastropoda. Univalves. Snails. Slugs. See also 632, Pests.
·4 Pteropoda. Winged Shells.
·5 Cephalopoda. Squids and Cuttle Fish.
.6 Molluscoidea.
·7 Bryozoa. (Polyzoa.) Sea Mats.
.8 Brachiopoda. Lamp Shells.
·9 Tunicata. (Ascidia.) Sea Grapes.

595 Articulates.

.1 Worms. Vermes. See also 632, Pests.
.2 Arthropoda.
·3 Crustacea.
·31 Entomostraca. Cyclops, Shrimps, etc.
·32 Phyllopoda.
·33 Ostracoda.
·34 Copepoda.
·35 Cirripedia. Barnacles, etc.
·36 Malacostraca. Sandbugs, Crabs, Lobsters, etc.
·37 Arthrostraca.
·38 Thoracostraca.
·39 Gigantostraca. Trilobites.
·4 Arachnida. Spiders. Scorpions. Mites. See also 632, Pests.
·5 Onychophora.
.6 Myriopoda. Centipedes, etc. See also 632, Pests.
·7 Insects. Insecta. Hexapoda. See also 632, Pests.
·71 Thysanura. Bristle-tails, spring-tails, etc.
·72 Orthoptera. Grasshoppers, etc.
·73 Pseudoneuroptera. Dragon-flies, white ants, etc.
·74 Neuroptera. Caddice flies, etc.
·75 Rhynchota. (Hemiptera.) Bugs, etc.
·76 Coleoptera. Beetles.
·77 Diptera. Flies, etc.
·78 Lepidoptera. Butterflies, Moths.
·79 Hymenoptera. Bees, Wasps, etc.

596 Vertebrates.

597 Fishes. Pisces.

.1 Pharyngobranchii. Lancelet.
.2 Marsipobranchii. Lampreys.
·3 Elasmobranchii. Sharks, Rays, etc.
.4 Ganoidei. Sturgeons, Garpikes, etc.
·5 Teleostei. True bony fishes.
.6 Batrachia. (Amphibia.)
·7 Ophiomorpha.
.8 Anura. Toads, Frogs.
·9 Urodela. Salamanders.

598 Reptiles. Birds.

.1 Reptiles.
.11 Lacertilia. Lizards.
.12 Ophidia. Snakes.
.13 Chelonia. Turtles.
.14 Crocodilia. Crocodiles.
.15 Ichthyopterygia.
.16 Sauropterygia.
.17 Anomodontia.
.18 Pterosauria.
.19 Dinosauria.
.2 Birds. Aves.
·3 Grallatores. (Waders.)
·4 Natatores. (Swimmers.)
·5 Cursores. (Runners.)
.6 Rasores. (Scratchers.)
·7 Scansores. (Climbers.)
.8 Insessores. (Perchers.)
·9 Raptores. (Birds of Prey.)

599 Mammals. Mammalia.

.1 Monotremata. Duck-billed Platypus.
.2 Marsupialia. Kangaroos, Opossums.
·3 Edentata. Rodentia. Insectivora. Sloths. Rodents. Moles.
.4 Cheiroptera. Bats.
·5 Cetacea. Sirenia. Whales, etc.
.6 Proboscidea. Hyracoidea. Elephants. Hyrax.
·7 Ungulata. Carnivora. Domestic Mammals. See also 636.
.8 Quadrumana. Apes.
·9 Bimana. Man. See also 573, Nat. hist. of man; 610, Medicine.

Useful Arts.

600 Useful Arts.

601 Philosophy. Theories, etc.

602 Compends. Outlines.

603 Dictionaries. Cyclopedias.

604 Essays. Lectures. Addresses.

605 Periodicals. Magazines. Reviews.

606 Societies. Fairs. Exhibitions.

Special exhibitions go with their topics. This is general only.

607 Education. Schools of Technology.

Divided like 940–99.

608 Patents. Inventions.

609 History of Useful Arts in General.

For its History, see each special department.

610 Medicine.

.1, Philosophy, Theories; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .71, Medical schools; .72, Medical education of women; .73, Training schools for nurses; .77, Medical museums; .8, Collections; .9, History of Medicine.

611 Anatomy. Histology.

May be subdivided by a 0, like 610, if wished. Put Dissection in 611.07 For Malformations see 617.3, Orthopædic Surgery. See also 591.4, Comparative Anatomy; 591.8, Histology.

.1 Circulatory System.

.11 Pericardium.
.12 Heart.
.13 Arteries.
.14 Veins.
.15 Capillaries.

.2 Respiratory System.

.21 Nasal Passages.
.22 Larynx.
.23 Trachea. Bronchi.
.24 Lungs.
.25 Pleura.
.26 Diaphragm and other muscles of respiration.

.3 Digestive System.

.31 Mouth. Tongue. Teeth. Salivary Glands.
.32 Pharynx. Oesophagus.
.33 Stomach.
.34 Intestine.
.35 Rectum. Anus.
.36 Liver. Gall Bladder.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.

.4 Glandular and Lymphatic System.

Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.31, Salivary Glands; 611.69, Mammary Glands.

.41 Spleen.
.42 Lymphatics.
.43 Thymus.
.44 Thyroid.
.45 Suprarenal Bodies.
.46

.6 Genito-Urinary System. Breasts.

.61 Kidneys. Ducts. Ureters.
.62 Bladder. Urethra.
.63 Testes. Spermatic Cord. Scrotum.
.64 Penis.
.65 Ovaries. Fallopian Tubes.
.66 Uterus.
.67 Vagina. Vulva.
.68
.69 Mammary Glands.

611.7 **Motor and Integumentary System.**

.71 Bones. Skeleton.
.72 Articulations. Joints. Cartilages.
.73 Muscles.
.74 Tendons. Fasciæ.
.75 Bursæ. Sheaths of Tendons.
.76 Connective Tissue.
.77 Skin.
.78 Hair. Nails.

.8 **Nervous System. Sensory Apparatus.**

.81 Brain and its Meninges.
.82 Spinal Cord and its Meninges.
.83 Nerves.
.84 Sight.
.85 Hearing.
.86 Smell.
.87 Taste.
.88 Touch.
.89 Ganglia.

.9 **Regional Anatomy.**

.91 Head.
.92 Face.
.93 Neck.
.94 Chest.
.95 Abdomen.
.96 Pelvis.
.97 Upper Extremities.
.98 Lower Extremities.

612 Physiology.

May be subdivided by a o, like 610, if wished. For Vital Phenomena in general, see 577. Properties of living matter. Use 612.01 for general works on Physiological Chemistry. See also 591.1, Physiology of Animals.

.1 **Blood and Circulation.**

.11 Blood and its Physical Properties. See also 612.23, Changes in Blood.

.1, Red Globules; .2, Leucocytes; .3, Arterial Blood; .4, Venous Blood; .5, Coagulation; .6, Quantity; .7, Color; .8, Other Properties; .9, Blood-making. Sanguification.

.12 Chemical Composition.
.13 Hydraulic Principles of Circulation.
.14 Blood Pressure.
.15 Rapidity of Flow.
.16 Pulse Wave.
.17
.18
.19 Functions of Special Organs.

.2 **Respiration.**

.21 Respiratory Movements.
.22 Gas Exchange.
.23 Changes in Blood. See also 612.11. Blood.
.24 Capacity of the Lungs.
.25 Exhalation of Vapor of Water
.26 Change of excreted Organic Particles.
.27
.28
.29 Functions of Special Organs.

612.3 **Digestion. Absorption. Nutrition.**

.31 Mouth. Teeth. Salivary Glands.
.32 Stomach. Vomiting, see 616.33.
.33 Intestine.
.34 Pancreas. Pancreatic Fluid.
.35 Liver.
.36 Defecation.
.37
.38 Absorption.

.1, Imbibition; .2, Osmosis; .3, Diffusion; .4, Skin, see also 612.79 and 615.67; .5, Lungs, see also 612.29 and 615.64; .6, Alimentary Canal, see also 612.3; .7, Other Mucous Membranes, see also 615.66; .8, Parenchymatous Absorption.

.39 Nutrition.

.1, Hunger and Thirst; .2, Nutriments; .3, Stimulants; .4, Growth; .5, Repair; .6, Carbohydrates; .7, Fats; .8, Albuminoids. For Diet, see 613.2.

.4 **Secretion. Excretion.**

Divided like 611.4. Add 612.46, Kidneys, Bladder, Urine, etc.; 612.49, for Vicarious Secretion. Put secretions of special systems with those systems; e. g. of the Liver, 612.35.

.5 **Animal Heat.**

.51 Sources of Heat.
.52 Loss of Heat.
.53 Regulation of Heat.
.54 Conditions Influencing Temperature.
.55 Variations of Heat.
.56 Temperature of Body.
.57 Fever. See 616.92, Diseases.
.58

.6 **Reproduction. Development.**

.61 Male Functions of Generation.
.62 Female Functions of Generation.
.63 Impregnation.
.64 Development of Embryo.

For abnormal development of embryo, see 617.3, Deformities.

.65 Growth after Birth.
.66 Period of full Development.

1, Puberty; 2, Menstruation; 3, Fecundity; 4, Lactation.

.67 Period of Decline. Death. See also 577.7, Biology.
.68 Longevity. See 368.3, Life Insurance; 519.5, Probabilities; 614.12, Death Rates.
.6

.7 **Function of Motor and Vocal Apparatus and Skin.**

.71 Protoplasm. See 576.2, Origin of Life.
.72 Cilia.
.73 Smooth Muscles.
.74 Striped Muscles.

For structure and chemical composition of muscles, see 611.73, Anatomy.
1, Contraction; 2, Rigor; 3, Electrical Phenomena; 4, Chemical Changes; 5, Heat Production. See also 612.51, Aoimal Heat.

.75 Bones. Joints.
.76 Locomotion.
.77
.78 Voice and Speech. See 784.9, Vocal Hygiene; 808.5, Elocution; 534.7. Sound.
.79 Skin. Hair. Nails.

612.8 **Nervous Functions.**

.81 Nerve Fibres.

.82 Central Nervous System. Brain.

.83 Spinal Cord.

.84 Sight. See also 152.1, Mental faculties; 535.7, Optics.

.85 Hearing. See also 152.2, Mental faculties; 534.7, Acoustics.

.86 Smell. Olfaction. See also 152.3.

.87 Taste. Gustation. See also 152.4.

.88 Touch. See also 152.5.

.1, Space; .2, Temperature; .3, Pressure; .4, Pain; .5, Muscular Sense; see also 152.6.

.89 Sympathetic Nervous System. Ganglia.

613 Personal Hygiene.

Care of Health; Prophylaxis; Individual Health; Laws of Health.

.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History. Description, Reports, etc., divided like 930–999.

.1 **Air and Light.**

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.

12 Health Resorts. Mountain. Sea-shore.

Regions exempt from special diseases.

.13 Seasons. Time of Day.

.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773, and 614.772.

.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 **Food. Dietetics.**

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.

Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.

Including means for giving nutrition, baths, enemeta, forced alimentation, etc.

.24 Fasting. Famine. Starvation.

.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 **Beverages.**

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.

.33 Microscopical Analysis. For Chemical Analysis, see 543.3.

.34 Biological Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics.

.39 Other Beverages.

613.4 **Cleanliness of Body. Clothing.**

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.

.42 Warm.

.43 Cold. For Swimming, see 796.

.44 Douche or Shower.

.45 Sea. Salt.

.46 Hot Air. Turkish. Russian. Roman, etc.

.47 Public.

.48 Clothing.

1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.

.49

.5 **Human Habitation and Resort.**

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.

These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.

.52 Hotels.

.53 Tenements.

.54 Schools. Colleges. See School hygiene, 371.7.

.55 Churches, Theaters, Halls, etc.

.56 Hospitals. Asylums.

.57 Prisons. Reformatories.

.58

.59 House Furnishing.

1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 **Hygiene of Employment.**

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.

Occupations made Injurious.

.62 By Inhalation of Vapors and Gases.

Bleachers, match-makers, lard refiners, etc.

.63 By Inhalation of Dust or by Absorption.

Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.

.64 By Elevated, Low, or Variable Temperature.

Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.

.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.

Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.

.66 By Accidents. See Public health, 614.8, Protection from accidents.

Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.

.67 Military Hygiene. Barracks, Camp and Tent Life.

.68 Naval Hygiene Ship Life.

.69 Hygiene of Travel and Exploration.

613.7 **Hygiene of Recreation and Sleep.**

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body.
For Curative gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, are grouped here by attractio

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 **Hygiene of Nervous System.**
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance.

.81 Alcohol. See also Temperance, 178; Beverages. [illegible]; Inspection of Beverages, 614.34.

.82 Opium and Hasheesh. See also 178.8.

.83 Chloral and Caffeine. See also 178.8

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.

.88 Luxury. Privation.

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 **Hygiene of Offspring. Heredity.**
See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

94 Stirpiculture.

614 Public Health.

Public Hygiene. Public Sanitation. State Medicine. Preventive Medicine. See also 628, Sanitary Engineering; 352.4, Boards of Health.
.02, Compends; .03, Dictionaries, Cyclopædias; .04, Essays; .05, Periodicals; .06, Societies, Conventions; .07, Education; .08, Sanitary Appliances, Exhibitions; .09, History, Description, Legislation, Reports, etc., divided like 930–999, e.g. 614.0942, Public Health in England.

.1 **Registration and Vital Statistics.** See 312, Population.

.11 Births and Birth-rates.

.12 Deaths and Death-rates.
Divided geographically like 930–999, e.g. Death-rate in England, 614.1242.

.13 Mortality at Different Ages.
For Life Insurance, Life Tables, Biometry, etc., see Life Insurance, 368.3, and Life Contingencies, 519.5; Longevity, 612.68.

.131 Still-births.

.132 Infant Mortality.

.133 Mortality in Childhood.

.134 " " Adult Life.

.135 " " Old Age.

.14 Mortality of Sexes, Races, etc.

.141 " " the Sexes.

.142 " " Males.

.143 " " Females.

.144 " " Races, Colored, White, Indian, etc.

.145 " " City and Country.

.15 " " Different Occupations. See also 613.6.

.16 " from Special Diseases. Causes of Death.

.17 Marriage.

.18 Divorce. See also 173.1, Family Ethics.

.2 **State Control of Medicine.**

.21 Medical Education and Degrees. See 610.7; 378.2, Academic Degrees.

.22 Anatomy and Vivisection Laws. See 179.4, Ethics.

.23 Expert Testimony and other Medico-Legal Relations. See 340.6, Medical Jurisprudence.

.24 Registration of Physicians, Dentists, Pharmacists, etc. License to Practice.

.25 Regulation of Medical Practice. See 174.2, Professional Ethics, Physicians.

.26 Quackery and Malpractice.

.27 Nostrums and Patent Medicines. See also 614.353, Adulterations.

.28 Sale of Poisons. See 615.9, Toxicology.

.29 Medical Police.

.3 **Adulterations. Inspection of Articles Liable to Affect Public Health.** Public analysts. State laboratories. For chemical analysis see 543.

.31 Inspection of Food. For chemical analysis see 543.1; Hygiene, 613.2.

.311 Sugars. Syrups. Confectionery.

.312 Cereals. Starches. Bread.

.313 Lards. Fats. Oils. See 614.325–6, Butter, Oleomargarine.

.314 Spices. Condiments.

.315 Yeast. Baking Powders. Cream of Tartar.

.316 Vegetables. Fruits. (Fresh.)

.317 Meats. Fish. (Fresh.)

.318 Canned or Preserved Food. Vegetables. Fruits.

.319 Meat. Fish. Oysters. (Preserved.)

.32 Milk and Milk Products.

.321 Milk Analysis. See also 543.2, chemistry.

.322 Milk of Known Purity.

.323 Milk as Sold to Consumer.

.324 Cream. Skimmed Milk. Condensed Milk. Buttermilk. Kumiss.

614.325 Butter and its Imitations.
.326 Oleomargarine.
.327 Cheese and its Imitations.
.33 Other Articles of Food.
.34 Inspection of Beverages. For chemical analysis see 543.1; Hygiene, 613.3.
.341 Fermented.
.342 Wine.
.343 Brewed.
.344 Beer.
.345 Distilled.
.346 Fruit Drinks. Lemonade, Shrub, etc.
.347 Tea. Coffee. Chocolate. Cocoa. See also 613.37, Hygiene.
.348 Mineral Waters. Soda Water. See also 613.38, Hygiene; 615.79, Therapeutics.
.349 Mixed Drinks.
.35 Inspection of Drugs. For chemical analysis see 543.4.
.351 Officinal or Pharmacopœial Drugs.
.352 Non-officinal Drugs.
.353 Empirical or Patent Medicines. See also 614.27, State control.
.354 Cosmetics.
.355 Poisonous Cosmetics.
.36 Inspection of Tobacco.
.37 Inspection of Pigments, Wall and other Papers, Textile Fabrics, Toys, etc.

.4 Contagious and Infectious Diseases. General.

.41 Causes and Origin. See 589.95, Bacteria, Microbes; 616.01, Germ theory of disease.
.42 Geographical Distribution. Climatology.
.43 Modes of Propagation and Communication.
.44 Prevention and Restriction. See Ambulances, 614.882.
.45 Isolation, Lazarettos, etc.
.46 Quarantine, etc.
.461 Maritime Quarantine.
.462 Inland "
.463 Control of Rags, etc.
.47 Protective Inoculation.
.471 Against Small-pox. See also 616.912, Pathology.
.472 Variolation.
.473 Vaccination.
.1, Bovine Vaccination; .2, Humanized Vaccination; .3, Vaccinal Syphilis; .4, Re-vaccination: .5, Vaccinisation; .6, Re-vaccinisation; .7, Retro-vaccination; .8, Compulsory Vaccination; .9, Optional Vaccination.
.474 Anti-vaccination.
.475 Against Cholera. See also 616.932, Pathology.
.476 " Yellow Fever. See also 616.928, Pathology.
.477 " Hydrophobia. Pasteurism. See also 616.953, Pathology.
.48 Disinfection. Houses, Clothing, Rags, Workshops, Cars, Ships, Camps, Air, Soil, Persons, Sewers, Vaults, Excreta. Dead, see Embalming, etc., 614.64.
.481 Fumigating and other Apparatus. 1, Stationary; 2, Portable.
.482 Disinfectants. Antiseptics. Deodorizers.
Treated with reference to Public Health. See also Materia Medica 615.777 & 615.778.
.483 Heat.
.484 Chemical Disinfectants
.485 Carbolic.
.486 Salicylic.
.487 Chlorides.
.488 Copperas.
.489
.49 Epidemics. Plagues.

614.5 Contagious and Infectious Diseases. Special.

These heads are for Public Health discussions only. For treatment, etc., see Pathology, 616.

.51 Filth Diseases.
.511 Typhoid or Enteric Fever.
.512 Diphtheria.
.513 Diarrhœal Diseases.
.514 Cholera.
.515 Cholera-infantum.
.516 Dysentery.
.517 Diarrhœa.
.52 Exanthemata.
.521 Small-pox.
.522 Scarlet Fever.
.523 Measles.
.524 Rötheln.
.525 Chicken-pox.
.526 Typhus.
.53 Malarial Fevers.
.531 Intermittent Fever.
.532 Remittent Fever.
.54 Other Contagious and Infectious Diseases.
.541 Yellow Fever.
.542 Phthisis.
.543 Whooping-cough.
.544 Mumps.
.545 Puerperal Fever. See also 618.
.546 Leprosy.
.547 Syphilis.
.548 Gonorrhea.
.55 Parasitic Diseases.
.56 Diseases Communicated from Lower Animals.
.561 Anthrax. Charbon.
.562 Trichiniasis.
.563 Hydrophobia.
.564 Glanders.

.6 Disposal of the Dead.

See 393, Customs. Treatment of the dead.

.61 Burial.
.611 Earth-burial.
.612 Tomb-burial.
.613 Burials in Churches. Intra-mural.
.614 Use of Perishable Coffins.
.62 Cremation. Crematories.
.63 Transportation of the Dead.
.64 Embalming and Disinfection of the Dead. Use of Ice.
See 614.48, Disinfection; 615.777, Disinfectants
.65 Effect of Cemeteries on Health.
.651 By Water Pollution.
.652 " Air "

614.7 Hygiene of the Air and Ground. Nuisances.

See 613.1, Air, Hygiene; 613.6, Hygiene of employment; 628.5, Industrial sanitation.

.71 Air Pollution by Dust and Smoke.
.72 Air Pollution by Noxious Gases, Mineral Trades, Chemical Works.
.721 Carbon Compounds.
.722 Carbonic Oxide, Carbonic Acid. Carburetted Hydrogen.
.723 Illuminating Gases. Gas Works.
.724 Mineral Oil Refining.
.725 Sulphur Compounds.
.726 Chlorine "
.727 Nitrogen "
.728 Phosphorus "
.729 Other.
.73 Air Pollution by Vegetable Trades.
.731 Brewing.
.732 Distilling.
.733 Vinegar Making.
.734 Sugar Refining.
735 Charcoal Burning.
.736 Varnish Making.
.74 Air Pollution by Animal Trades.
.741 Slaughter Houses. Abattoirs. Fish.
.742 Rendering Works. Bone-boiling. Tripe and Gut Cleaning.
.743 Pork Packing. Lard Refining.
.744 Soap Making.
.745 Tanning.
.746 Glue Making.
.747 Lampblack.
.748 Commercial Fertilizers.
.75 Storage and Handling of Noxious and Offensive Materials.
.76 Other Air Pollutions. See 628, Sanitary engineering.
.761 Stables. Stable Manure.
.762 Hog Styes.
.763 Offal. Dead and Diseased Animals and Fish.
.764 Vaults. Cess-pools. Water Closets, Privies, Urinals, Night-soil.
.765 Sewers and Sewer Outlets. Sewer Gas.
.77 Conditions of Soil as Affecting Health. Topography. Sanitary Surveys.
.771 Analysis of Soils. See 543.7, Chemistry.
.772 Soil Moisture. Hygiene of Natural Water Courses and of Marshes. See 613.14, Hygiene.
.773 Ground Atmosphere. See 613.14, Hygiene.
.774 Solid Constituents of Soil.
.775 Malarious Soils. See 613.14, Hygiene.
.776 Recovery of Soils from Pollution.
.78 Air and Ground in Towns.
.781 Laying Out of Towns and Streets.
.782 Subways and Elevated Ways. See 628.47, Sanitation of Towns.
.783 Parks. Air Spaces.
.784 Hight of Buildings and Proportion of Occupiable Area. See 614.85, Building laws.

614.8 Protection of Human Life from Accidents, Casualties, etc.

See 613.66 Hygiene of employment.

.81 Drowning.
.811 Rescue of the Drowning.
.812 Resuscitation of the Drowned. First Help.
.82 Suffocation.
By gases, in vaults, mines, etc.; see 622.8, Mining dangers. By illuminating gases.
.83 Explosions.
.831 Manufacture and Storage of Explosives and Combustibles. See 662, Chemical technology.
.832 Gunpowder.
.833 Dynamite, etc.
.834 Inspection of Kerosene, etc.
.835 " of Illuminating Gas.
.836 " of Electric Apparatus.
.837 " of Steam Boilers.
.84 Fires.
.841 Fire Prevention.
.842 " Detection.
.843 " Extinction. See 352.3, Fire Department.
.844 Automatic.
.845 Chemical Extinguishers.
.846 Fire Engines. Water Towers. See 621.68, Pumping engines.
.847 " Escapes and Other Apparatus.
.848 " Exits, etc., from Public Buildings.
.85 Building Laws. Inspection of Buildings. See 614.784, Hight of Buildings.
.86 Protection of Travelers.
.861 Travel on Land.
.862 on Highways.
.863 " Railroads.
.864 Travel on Water.
.865 Light-houses, Buoys, etc.
.866 Pilots.
.867 Boats, Life-preservers, etc.
.868 Rescue of Shipwrecked. Life-saving Service.
.87 Exposure to Cold. Hospice of St. Bernard.
.88 Aid to Injured.
.881 Ambulance.
.882 Ambulance for Contagious Diseases. See also 614.44.
.883 "The Bed Wagon."

.9 Hygiene of Animals. Veterinary Sanitation.

.91 Infectious Diseases of Domestic Animals.
.92 Parasites of Animals. See 591.69, Economic zoölogy.
.93 Animal Diseases Communicable to Man. See also 614.56.
.94 Care and Housing of Animals.
.95 Feeding of Animals.
.96 Transportation of Animals.
.97 Methods of Slaughtering.
.971 Painless Extinction of Animal Life.

615 Materia Medica and Therapeutics.

.02, Compends; .05, Pharmaceutical Journals; .06, Pharmaceutical Societies; .07, Education, Schools of Pharmacy; .09, History.

.1 Materia Medica. Drugs.

For Examining boards, Laws, etc., see 614.24, Registration of Pharmacists. See also 614.35, Adulteration of drugs; 543.4, Chemical analysis.

.11 Pharmacopœias.
.12 Dispensatories.
.13 Formularies.
.14 Prescription writing. Posology.

.2 Inorganic Drugs.

Divided like 546. 615.218, Phosphorus; 615.258, Mercury; 615.272, Iron.

.3 Organic Drugs.

.31 Carbon Compounds. Divided chemically like 547.
.32 Vegetable Products. Divided botanically like 580.
.33 Vegetable Products. Divided by character.

1, Starches; 2, Sugar; 3, Glucosides; 4, Tannins; 5, Gums; 6, Drugs containing Alkaloids; 7, Bitters; 8, Organic Acids.

.34 Fixed Oils and Acids.
.35 Ferments. Diastase, Pepsin, etc.

.4 Practical Pharmacy.

.5 Therapeutics. Action of Medicines in General.

.51 Certainty of Medicines.
.52 Antagonism of Medicines.
.53 Law of Similars. Homœopathy.

Homœopathic works are classed with the subjects treated. This head is for Hahnemann's theory only.

.54 Influence of Age.

Infant therapeutics. Therapeutics of old age.

.55 Influence of Sex.
.56 Influence of Environment.
.57 Influence of Idiosyncracy.

.6 Administration of Medicines.

.61 By Stomach.
.62 " Rectum.
.63 " Subcutaneous tissue. Hypodermic medication.
.64 " Lungs. Inhalation. See also 612.385, Absorption.
.65 " Veins. Transfusion of blood.
.66 " Serous and Mucous Membranes. Peritoneum, Vagina, etc.

See also 612.387, Absorption.

.67 " Skin. Baths. See also 612.384, Absorption.

.7 Medicines grouped by Effects.

Treatises on specific drugs, Digitalis, Ergot, etc., are classed in the divisions of Materia Medica, 615.2–615.3; Iron, 615.272; Digitalis, 615.32381.

.71 Drugs acting on Circulatory System.
.711 Stimulants.

Alcohol, Ammonia, Digitalis, Coffee, Ergot.

.716 Depressants.

Aconite, Veratrum group, Nitrites.

.72 Drugs acting on Respiratory System.
.721 Expectorants.
.726 Errhines. Sneezing.

.73 Drugs acting on Digestive System.
.731 Emetics.

Ipecac, Mustard, Metallic Salts, Apomorphine.

.732 Cathartics.

1, Laxatives; 2, Salines; 3, Purgatives; 4, Hydragogues; 5, Drastics; 6, Mercurials.

.733 Anthelmintics.
.734 Aids to Digestion.

1, Bitters, Tonics; 2, Ferments, Pepsin, Pancreatine, etc.; 3, Acids, Antacids.

.735 Demulcents, Emollients, etc.

Bismuth, Oxalate of Cerium, etc.

.74 Drugs acting on Glandular System.
.741 Sialagogues. (Saliva.)
.742 Cholagogues. (Bile.)
.743 Diaphoretics. (Perspiration.)

Pilocarpine, Heat, Exercise.

.75 Antipyretics. Antiperiodics.

Quinine, Salicylates, Coal-tar products, Kairin, Antipyrin, Antifebrin, Cold, Baths. See also 613.41, Baths.

.76 Drugs acting on Genito-Urinary System.
.761 Diuretics.

Water, Citrates, Acetates, Digitalis, Caffeine, Copaiba.

.766 Uterines. Oxytocics.

Viburnum, Ergot, etc.

.77 External Agencies.
.771 Irritating.
.772 Astringents.
.773 Rubefacients.
.774 Epispastics. Blisters.
.775 Escharotics. Caustic potassa.
.776 Protective. Emollient.

Fats, Oils, Powders, Starch, Bismuth, Oxide of Zinc.

.777 Deodorants. Disinfectants. See 614.48, Disinfection; 614.64, Disinfection of dead
.778 Antiseptics. Germicides.
.78 Drugs acting on Nervous System. See also 615.95, Neurotic Poisons.
.781 Anæsthetics. Chloroform, Ether.
.782 Hypnotics. Chloral, Bromides.
.783 Analgesics. Opium.
.784 Mydriatics. Belladonna.
.785 Excitants. Strychnine.
.786 Depressants. Conium.
.788
.789 Other Drugs.

Camphor, Valerian, Asafetida.

.79 Mineral Waters. See also 613.38, Hygiene; 553.7, Occurrence in nature.

.8 Other Remedies.

.81 Mechanical Remedies.
.811 Blood-letting. Venesection. Cupping.
.812 Setons and Issues.
.813 Bandages. Ligatures.
.814 Acupuncture.
.815 Pneumatic Aspiration.
.82 Massage. See also 613.71, Gymnastics.

615.83 Imponderable Remedies.
.831 Light. Blue glass.
.832 Temperature. Heat. Cold.
.833 Moisture.
.834 Climate. See also 613.1, Hygiene.
.835 Altitude.
.836 Pneumatic Differentiation.
.837 Music.
.84 Electricity. Electro Therapeutics. See 537.87.
.85 Cures.
.851 Mind Cure. Influence of mind on body. See also 130, Mind and Body.
.852 Faith Cure. See 265.8, Religion.
.853 Water Cure.
.854 Food Cures. Grapes, Milk, Beef, etc.
.855 Thomsonianism. Herb Doctors.
.856 Perkinism. Metallic Tractors.
.86
.87
.88 Patent Medicines.
.89 Ancient and Mediæval Remedies.
Including those of modern uncivilized peoples.

.9 Toxicology. Poisons.

For detection of poisons, see 543.5; Sale of poisons, 614.28; Poisoned wounds, 617.148.

.91 Irritant Poisons.
.92 Mineral Irritants.
.921 Acid Poisons.
.922 Alkaline Poisons.
.923 Non-metallic Poisons.
.924 Phosphorus. See also 615.218, Drugs.
.925 Metallic Poisons.
.926 Arsenic. See also 615.219, Drugs.
.927 Mercury. See also 615.258, Drugs.
.928 Lead. See also 615.251, Drugs.
.929 Copper. See also 615.256, Drugs.
.93 Vegetable Irritants.
Hellebore, Aloes, Croton oil, etc.
.94 Animal Poisons.
Cantharides, Diseased meat, Ptomaines, Tyrotoxicon, etc.
.95 Neurotic Poisons. See also 615.78, Drugs acting on nervous system.
.96 Cerebral or Narcotic Poisons. Carbonic oxide and acid.
.961 Opium.
.962 Prussic Acid.
.963 Cyanides.
.964 Alcohol.
.965 Ether.
.966 Chloroform.
.967 Chloral Hydrate.
.97 Spinal Poisons.
Nux vomica, Strychnia.
.98 Cerebrospinal Poisons.
Aconite, Belladonna, Lobelia.
.99 Cerebrocardiac Poisons.
Digitalis, Tobacco.

616 Pathology. Diseases. Treatment.

May be subdivided by a o like 610, if wished. Use 616.01 for Etiology, Germ theory, Classification of diseases. Use 616.07 for Diagnosis, Study of disease, and subdivide it as follows: 1, Pulse; 2, Tongue; 3, Eye, Skin, etc.; 4, Auscultation, Percussion; 5, Thermometry; 6, Chemistry, Urine analysis; 7, Microscopy; 8, Pathological anatomy; 9, Post-mortem examination.

.1 Diseases of Circulatory System.

.11 Membranes of the Heart.
.12 Heart. Angina Pectoris.
.13 Arteries.
.14 Veins.
.15 Blood.

.2 Diseases of Respiratory System.

01, Croup; 02, Hay Asthma, Hay Fever; 03, Influenza, Epidemic Catarrh; 04, Whooping Cough, see also 614.543; 05, Coryza, Catarrh; 06, Asphyxia.

.21 Nose. Naso-pharyngeal Space.
.22 Larynx.
.23 Trachæa. Bronchi. Bronchitis. Asthma.
.24 Lungs.
1, Pneumonia, Lung Fever; 2, Congestion; 3, Hemorrhage; 4, Abscess; 5, Gangrene; 6, Phthisis, Consumption, see also 614.542; 7, Embolism and Aneurism of Pulmonary Artery; 8, Emphysema; 9, Collapse.
.25 Pleura. Pleurisy.

.3 Diseases of the Digestive System.

For diseases of teeth see 617.6.

.31 Mouth. Tongue. Fauces.— Sore Throat. Quinsy. Mumps. See also 614.544.
.32 Pharynx. Œsophagus.
.33 Stomach.— Gastritis. Dyspepsia. Vomiting.
.34 Intestines.— Hernia. Diarrhea. Constipation. Colic.
.35 Rectum. Anus.— Piles.
.36 Liver. Gall-Bladder.— Jaundice.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.— Peritonitis.
.39 Dietetic Diseases.
Surfeit. Starvation. Scurvy. Dyspepsia.

.4 Diseases of the Lymphatic System.

.41 Spleen.
.42 Lymphatics. Thoracic Duct.
.43 Thymus.
.44 Thyroid Body. Goître.
.45 Suprarenal bodies.

.5 Dermatology. Skin Diseases.

.51 Inflammatory Affections.
Diffuse, Papular, Scaly. Nettlerash. Hives.
.52 Catarrhal, Vesicular, Pustular. Eczema. Shingles. See also 614.561.
.53 Disorders of Sebaceous Glands.
.54 Hypertrophies. Atrophies.
Corns. Warts. White hair. Baldness.
.55 New Formations. Pigmentary Changes.
Albinism. Freckles.
.56 Disorders of Sweat Glands.
.57 Parasitic Diseases. See 616.96, Parasitic Diseases.
.58 Other Skin Diseases.
Chilblain. Frostbite. Chaps.

616.6 **Diseases of Genito-Urinary System.**

For Diseases of women, see 618.

.61 Kidneys. Ducts.— Bright's Disease.
.62 Bladder.— Calculus.
.63 Urinary Disorders.— Diabetes.
.64 Male Urethra.
.65 Prostate.
.66 Penis.
.67 Scrotum.
.68 Spermatic cord. Testes.
.69 Functional Diseases of Male Generative Organs.— Spermatorrhœa. Impotence.

.7 **Diseases of the Organs of Locomotion.**

.71 Bones (except spine).
.72 Joints (except spine).
.73 Spine.— Curvature.
.74 Muscles.
.75 Tendons. Fasciæ.
.76 Bursæ. Sheaths of Tendons.
.77 Connective Tissue.

.8 **Diseases of Nervous System.**

.81 Diseases relating to Cerebro-Spinal Circulation. Apoplexy.
.82 Diseases relating to Cerebro-Spinal Meninges.
.83 Structural Diseases of Brain and Cord.
.84 Functional Diseases of Brain and Cord.

1, Vertigo; 2, Paralysis; 3, Neurasthenia; 4, Spinal Irritation; 5, Eclampsia, Convulsions.

For Insanity see 132.1.

.85 Neuroses.

1, Chorea, St. Vitus's Dance; 2, Hysteria, see 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria; 3, Epilepsy; 4, Tetanus, Lockjaw; 5, Aphasia; 6, Anæsthesia, Hyperæsthesia; 7, Megrim, Sick-headache.

.86 Neuroses due to special Poisons.

1, Alcoholism, see also Dipsomania, 132.7; 2, Metallic Tremor.

.87 Diseases of Nerves.— Neuralgia. Cramp.
.88 Diseases of Sympathetic System.

.9 **General Diseases.**

.91 Infectious Diseases.

1, Eruptive Fevers; 2, Small Pox, see also 614.471 and 614.521; 3, Cow Pox; 4, Chicken Pox, see also 614.525; 5, Measles, see also 614.523; 6, Rubeola, see also 614.524; 7, Scarlet Fever, Scarlatina, see also 614.522.

.92 Other Fevers. General Works on Fevers. See 612.57, Animal Heat.

1, Dengue, Break-bone Fever; 2, Typhus, see also 614.526; 3, Plague; 4, Relapsing Fever, Famine Fever; 5, Cerebro-spinal Fever; 6, Simple Continued Fever; 7, Enteric Fever, Typhoid Fever, see also 614.511; 8, Yellow Fever, see also 614.476 & 614.541.

.93 Diphtheria. Cholera. Malarial Fever.

1, Diphtheria, see also 614.512; 2, Asiatic Cholera, see also 614.475 and 614.514; 3, Sporadic Cholera; 4, Epidemic Diarrhœa, see also 614.517; 5, Dysentery, see also 614.516; 6, Malarial Fever, see also 614.53.

.94 Septic Diseases.

1, Phagedæna; 2, Erysipelas; 3, Pyæmia; 4, Septicæmia.

.95 Venereal Diseases. Hydrophobia, etc.

1, Syphilis, see also 614.547; 2, Gonorrhœa, see also 614.548; 3, Hydrophobia, see also 614.477 and 614.563; 4, Glanders, see also 614.564; 5, Horse Pox; 6, Splenic Fever.

616.96 Parasitic Diseases. See also 614.55.
.961 Animal Parasites. See 591.69, Economic Zoölogy; 614.92, Parasites of animals.
.962 Entozoa.
.963 Trematoda. Flukes.
.964 Cestoda. Tape-worms.
.965 Nematoda. Round worms, Thread worms, Trichinæ. See also 614.562.
.966 Acanthocephala. Thorn-headed worms.
.967 Insecta parasitica. Maggots.
.968 Ectozoa.

1, Insecta parasitica, Musquitoes, Gnats, Bed bugs, Fleas, Lice; 5, Arachnida parasitica, Mites, Ticks; 8, Suctoria parasitica, Leeches.

.969 Vegetable Parasites. See 581.69, Economic Botany.
.97 Effects of Poisons. See 615.9, Toxicology.
.98 Effects of Injuries and Climate.

1, Presence of foreign bodies; 2, Mechanical injuries; 3, Excessive Exertion and Strain; 4, Excessive Venery; 5, Privation; 6, Exhaustion; 7, Chemical agents 8, Climate.

.99 Other General Diseases.
.991 Rheumatism, Rheumatic Fever. Gout.
.992 Tumors.
.993 Non-malignant. Cysts. Wens.
.994 Malignant. Cancer.
.995 Tubercle.
.996 Scrofula. Rickets.
.997 Myxœdema. Cretinism.
.998 Leprosy. See also 614.546.

617 **Surgery.**

May be subdivided by a o like 610, if wished.

.1 **Injuries.**

.11 Burns and Scalds.
.12 Lightning and Electric Shock.
.13 Contusions and Abrasions.
.14 Wounds.

1, Incised; 2, Contused; 3, Lacerated; 4, Punctured; 5, Gun-shot, see 617.99 Military surgery; 6, With lodgment of foreign bodies; 7, With complete separation of parts; 8, Poisoned, see 615.9 Toxicology.

.15 Fractures.
.16 Dislocations.
.17 Sprains.
.18 Asphyxia.

.2 **Results of Injuries.**

Constitutional effects and other complications. See also 616.94, Septic diseases.

.21 Shock.
.22 Inflammation.
.23 Abscess. Sinus. Fistula.
.24 Ulcers. Sores.
.25 Mortification. Gangrene.
.26 Traumatic Fever.
.27 Tetanus. See also 616.854.

617.3 **Orthopædic Surgery. Deformities.**

For convenience the whole subject of deformities is classed here, though many of them have no surgical treatment. See also 573.8, Dwarfs and Giants; 573.9, Monstrosities; 613.91 Congenital defects.

.31 Incomplete Development or Growth.
Divided like 611, Anatomy.

.32 Incomplete Coalescence of Parts. Harelip.
.33 Coalescence of Parts.
.34 Extension of Commissure (Apparent Duplication).
.35 Coalescence of Fœtuses. Siamese Twins.
.36 Supernumary Parts or Organs. Extra Fingers or Toes.
.37 Disproportionate Growth of Parts
.38 Transposition or Displacement of Parts.
.39 Congenital Distortions, including Talipes, Club Foot.

.4 **Surgical Operations.**

.41 Circulatory System.
.42 Respiratory System.
.43 Digestive System.
.44 Glandular and Lymphatic System.
.45
.46 Genito-Urinary System.
.47 Motor and Integumentary System.
.48 Nervous System.

.5 **Regional Surgery.**

.51 Head. Trephining.
.52 Face. Mouth. See 617.6, Dentistry; 617.7, Eye; 617.8, Ear.
.53 Neck. Throat.
54 Chest.
.55 Abdomen.
.56 Pelvis.
.57 Upper Extremities. Artificial Arms, Hands, etc.
.58 Lower Extremities. Artificial Legs, Feet, etc.

.6 **Dentistry. Diseases of Teeth.**

.61 Diseases of Dental Pulp.
.62 Diseases of Dentine and Cementum.
.63 Diseases of Dental Periosteum.
.64 Malposition and Malformation of Teeth.
.65 Odontalgia. Toothache.
.66 Extraction of Teeth.
.67 Stopping Teeth.
.68 Transplanting Teeth.
.69 Artificial Teeth.

.7 **Ophthalmic Surgery. Diseases of the Eye.**

.71 Conjunctiva. Cornea. Sclerotic. Ophthalmia.
.72 Iris. Choroid. Ciliary Body.
.73 Optic Nerve. Retina.
.74 Lens and its Capsule. Vitreous Humor. Affections of the Globe. Cataract.
.75 Disorders of Vision.
Myopia, Shortsightedness, Astigmatism, Color-blindness.
.76 Muscular Apparatus. Lachrymal Apparatus.
Strabismus, Squint.
.77 Eyelids.
.78 Orbit and Neighboring Parts.
.79 Artificial Eyes.

617.8 **Diseases of the Ear.**

.81 Affections of External Ear.
82 Auricle.
.83 Auditory Canal.
.84 Affections of Middle Ear.
.85 Membrana Tympani.
.86 Eustachian Tubes.
.87 Mastoid Cells.
.88 Affections of Internal Ear.
.89

.9 **Operative Surgery.**

See 615.781, Anæsthetics.

.91 Armamentaria. Surgical Instruments.
.92 Orthopædic Appliances. Splints, Trusses, etc.
See 617.3, Orthopædic surgery
.93 Surgical Dressings.
.94 Amputation. Resection.
.95 Plastic Surgery.
.06
.97
.98
.99 Military Surgery.

618 Diseases of Women and Children. Obstetrics.

.1 **Gynæcology. Diseases of Women.**

.11 Ovary.
.12 Fallopian Tube.
.13 Periuterine Diseases.
.14 Uterus and Cervix.
.15 Vagina.
.16 Vulva.
.17 Functional and Symptomatic Disorders.
Diseases of Menstruation. Leucorrhœa. Sterility.
.18
.19 Diseases of Breast.

.2 **Obstetrics.**

.21 **Pregnancy. Physiology.**

.22 Diagnosis. Signs of Pregnancy.
.23 Duration.
.24 Hygiene. Management.
.25 Multiple Pregnancy. Twins, etc.

.3 **Pathology of Pregnancy.**

Diseases of Pregnancy and their Treatment.

.31 Ectopic Gestation. Extra-uterine Pregnancy.
.32 Pathology of Ovum.
.33 Death and Retention of Fœtus.
.34 Pathology of Fœtal Appendages.
.35 Decidua.
.36 Placenta.
.37 Amnion.
.38 Umbilical Cord.
.39 Abortion. Miscarriage. Stillbirth. Molar Pregnancy
See 173.4, Infanticide; 340.6, Medical jurisprudence; 343, Criminal law.

618.4 **Parturition. Labor. Physiology.**

.41 Mechanism of Labor.
.42 Presentations. Positions.
.43 Clinical Course and Phenomena.
.44 Conduct of Normal Labor. Management.

.5 **Pathology of Labor.**

Abnormal Labor from Faults
.51 of Powers. Anomalies of Expelient Forces.
.52 of Passages. Mechanical Obstacles to Expulsion of Fœtus.
.53 of Child. Abnormalities of Fœtus. See 617.3, Deformities. Complications.
.54 Hemorrhage.
.55 Rupture or Laceration of Genital Tract.
.56 Retention of Placenta.
.57 Inversion of Uterus.
.58 Prolapsus Funis.
.59 Other Complications.

.6 **Puerperal State. Physiology.**

Management, including care of child.

.7 **Pathology of Puerperal State. Puerperal Diseases.**

.71 Diseases of Lactation. Milk Fever. Mastitis, etc.
.72 Puerperal Fever. See 614.545, Public health.
.73 Metritis. Peritonitis, see also 616.38. Cellulitis.
.74 Septicæmia, see also 616.944. Pyæmia, see also 616.943.
.75 Convulsions. See 616.845, Eclampsia.
.76 Puerperal Mania. See 132.1, Insanity.
.77 Phlebitis. Venous Thrombosis. Phlegmasia Dolens. See 616.14, Diseases of veins.
.78 Other Puerperal Affections.
.79 Sudden Death after Delivery.

.8 **Obstetric Operations.**

.81 Application of Lever and Forceps.
.82 Version.
.83 Embryotomy.
.84 Dilatation of Os and Cervix.
.85 Symphyseotomy.
.86 Cæsarian Section.
.87 Removal of Placenta.
.88 Induction of Labor. Removal of Ovum.
.89 Intra-uterine Injections. Antiseptics in Midwifery.

.9 **Pædiatrics. Diseases of Children.**

619 Comparative Medicine. Veterinary.

.1 **Horses.**
.2 **Cattle.**
.3 **Sheep, Goats.**
.4 **Swine.**
.5 **Poultry.**
.6 **Birds.**
.7 **Dogs.**
.8 **Cats.**
.9 **Other.**

620 Engineering.

.01, Statistics; .02, Quantities and Cost; .03, Contracts and Specifications; .04, Designs and Drawings; .05, Executive; .06, Working and Maintenance; .07, Laws; .08, Patents; .09, Reports.
.1, Strength of Materials; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Tables and Calculations; .9, History of Engineering.

621 Mechanical Engineering.

May be subdivided like 620 and 620.0.

.1 **Steam Engineering.** See 536.81.

.11 Mechanism of Steam Engine.
.12 Marine Engines and Ship Propulsion. See 699.
.13 Locomotive Engines.
.14 Traction Engines.
.15 Portable Engines.
.16 Stationary Engines.
.17
.18 Steam Generation. Boilers. Furnaces.
.19 Steam Heating. See 697, 536.83, 628.8, 644.

.2 **Water Engines or Motors.**

.21 Water Wheels. See 532.84.
.22 Overshot and Breast Wheels.
.23 Undershot Wheels.
.24 Turbines.
.25 Water Pressure Engines. See 532.82.
.26 Hydraulic Presses. See 532.81.
.27 Hydraulic Ram. See 532.83.
.28
.29 Mill Dams. Sluices, etc. See 627.8.

.3 **Electrical Engineering.**

.31 Dynamo Machines. See 537.83.
.32 Electric Lighting. See 537.83.
.33 Electric Railways.
.34 Transmission of Electric Force. See 537.84.
.35 Storage of Electric Force. See 537.84.

.4 **Air and Gas Engines and other Motors.**

.41 Caloric Engines.
.42 Compressed Air Engines.
.43 Ignited Gas Engines. See 536.82.
.44 Binary Vapor Engines.
.45 Windmills.
.46 Animal Motors. Tread Mills.
.47 Solar Engines.

.5 **Air Compressors. Ice Machines.**

.6 **Blowing and Pumping Engines.**

.61 Piston Blowers.
.62 Rotary Blowers. Fans.
.63 Centrifugal Blowers.
.64 Steam Pumps and Pumping Engines.
.65 Piston Pumps.
.66 Rotary Pumps.
.67 Centrifugal Pumps.
.68 Fire Engines. See 352.3, Fire Dep't; 614.84, Fires.
.69

621.7 **Mills and Manufacturing Works.**

.8 **Mill Work and Mechanism of Transmission.**

.81 Principles of Mechanism. See 531.8.
.82 Journals, Shafting, etc.
.83 Toothed Wheels.
.84 Valve Motions and Gears.
.85 Machinery and Mill Gearing.
.86 Hoisting and Conveying Machinery.
.87 Cranes and Elevators.
.88
.89 Lubricants. Friction. See also 531.4, Mechanics.

.9 **Machine Tools.**

.91 Planing Machines.
.92 Grinding and Filing.
.93 Cutting and Sawing.
.94 Turning and Milling. Lathes.
.95 Perforating. Drills.
.96 Punching and Shearing.
.97 Hammers. Riveting.
.98 Bending. Straightening. Shaping.
.99 Fastening. Bolts. Rivets. Screws.

622 Mining Engineering. See also 338.2, Mining products.

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009

.1 **Exploration and Prospecting.**

.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19.
.17
.18
.19 Mining Prospectuses. See 553

.2 **Practical Mining.**

.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.42.

.3 **Working of Mines. Exploitation.**

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and .4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.

622.4 **Ventilation and Lighting of Mines.**

.41 Theory. Gases met with, etc.
.42 Natural Ventilation.
.43 Furnaces. Steam Jets, etc.
.44 Fans. See 621.62.
.45 Airways. Stoppings. Regulators.
.46 Measurement of Ventilation.
.47 Lighting. Safety Lamps, etc.

.5 **Drainage.**

51 Theory of Infiltration of Water.
52 Natural Drainage.
.53 Cornish Pumps. See 621.64.
.54 Steam Pumps. See 621.64.
.55 Hoisting of Water.
.56 Dams and Watertight Linings. See also 622.28, Timbering.
.57 Acid Waters.

.6 **Extraction. Hoisting and Transportation.**

.61 Handling Mineral in Working Place.
.62 Underground Roads.
.63 Mine Cars. Trams, etc.
.64 Gravity Roads and Planes.
.65 Tramming and Animal Haulage. See 625.7.
.66 Mechanical Haulage.
.67 Hoisting Engines. Drums. Ropes.
.68 Cages. Skips. Buckets.
.69 Surface Transportation.
Including Mineral Roads, Wire Rope-ways, Transhipment, Loading and Unloading, etc.

.7 **Mechanical Preparation. Ore Dressing.**

.71 Theory. Preliminary Operations.
.72 Hand Dressing.
.73 Crushing. Stamping Engine.
.74 Screening.
.75 Jigging. Ore Concentrators.
.76 Slime Treatment.
.77 Magnetic Separation.
.78 Coal Washing.
.79 Dressing Works.

.8 **Dangers and Accidents.** See also 613.6, Hygiene; 331.82, Laboring classes.

.81 Explosions of Fire-Damp.
.82 Mine Fires.
.83 Crushing and Fall of Ground.
.84 Flooding of Mines.
.85 Accidents to Miners.
.86 Rescue and Relief.
.87
.88
.89

623 Military and Naval Engineering.

For Military and Naval Science, Maneuvers, Strategy and Tactics, see 355 to 359.

.1 Fortifications. Field and Permanent.
.2 Siege Operations; Mines, etc.
.3 Defensive Operations.
.4 Ordnance and Projectiles. Arsenals.
.5 Gunnery.
.6 Military Roads and Bridges.
.7 Military Signals; Telegraph, Ballooning, etc.
.8 Naval Architecture. See also 699, Ship building.
.9 Armored Vessels, Torpedoes, etc.

624 Bridges and Roofs.

.1 Piers. Foundations, etc.
.2 Girders. Stresses and Strains.
.3 Trussed Bridges.
.4 Tubular Bridges.
.5 Suspension Bridges.
.6 Arched Bridges.
.7 Compound Structures.
.8 Movable Bridges.
.9 Roofs.

625 Railroad and Road Engineering.

See also 624. Bridges; 622.2, Tunnels; 622.26, Excavations, etc.; 621.33. Electric railways.

.1 Route. Road Bed, Rails, Ties, etc.
.2 Trains. Brakes, Couplings, Wheels, etc. See 621.13, Locomotives.
.3 Inclines and Mountain Railways.
.4 Elevated and Underground Roads. Subways. See also 624.782.
.5 Cable Roads.
.6 Horse Cars. Tramways.
.7 Roads. Highways.
.8 Pavements. See also 628.47. Sanitation of towns.
.9 Ship Railways.

626 Canal Engineering.

.1 Route.
.2 Water Supply.
.3 Size and Shape.
.4 Locks.
.5 Lifts and Inclined Planes.
.6 Canal Boats. Size, Shape, etc. See 699. Shipbuilding.
.7 Towing. Power, etc.
.8 Irrigation Canals and other Irrigation Works.
.9 Ship Canals.

627 River, Harbor, and General Hydraulic Engineering

.1 Rivers. Force of Water. Discharge. Bars.
.2 Harbors. Breakwaters.
.3 Docks. Piers. Quays. Shipping Facilities.
.4 Dikes and Levees. Embankments.
.5 Other Protection and Reclamation of Land from Tides and Waves. Drainage. For Agricultural Drainage see 631.
.6 Jetties.
.7 Dredging. Dredging Machinery.
.8 Dams.
.9 Lighthouses. Buoys.

628 Sanitary Engineering. Water-works.

.01, Theories, Utility; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Polygraphy; .09, History and Description of Sanitation and General Sanitary Works, divided geographically like 930–999.

.1 Water Supply of Towns. For isolated supply see 628.7.

.11, Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping. .12, Pumping vs. Gravitation Systems; Pump-well; Stand-pipe; High Service; Holly System. .13, Storage and Service Reservoirs. .14, Conduits; Aqueducts; Tunnels (see 622). .15, Mains and Service Pipes; Freezing; Iron; Lead. .16, Impurities and their Removal; Filter-basins, etc. .17, Public (Sprinkling, Fire, Flushing), Manufacturing, and Domestic Use and Waste; Meters.

.2 Sewerage Works.

.21 Sewerage Systems.

1, Combined System; 2, Separate System; 3, Liernur System; 4, Shone System; 5, Berlier System; 6, Other Systems; 7, The Outfall; 8, Depth and Alignment; 9, Grade and Velocity.

628.22 Shape and Size of Sewers.

1, Storm-water Flow; 2, Ordinary Flow; 3, Circular Section; 4, Ordinary Egg-Shape; 5, Other Egg-Shapes; 6, Other Forms; 7, ; 8, Formulas for Size.

.23 Ventilation of Sewers.

1, Openings in streets; 2, Lamp Posts; 3, Flues in Houses; 4, Pipes on Houses; 5, House Drains; 6, Chimneys and Furnaces; 7, Charcoal and Chemicals to deodorize sewerage gas; 8, Special Mechanism; 9, Special Construction.

.24 Design and Construction of Sewers.

.25 Sewer Appurtenances.

1, Junctions; 2, House Connections; 3, Manholes and Lampholes; 4, Flushing Shafts and Fixtures; 5, Catch Basins and Inlets; 6, Traps and Ventilators; 7, Valves and Penstocks; 8, Overflows and Regulators; 9, Miscellaneous.

.26 River Crossing.

.27 Intercepting and Outfall Sewers.

.28 Reservoirs and Tank Sewers.

.29 Pumping Stations.

.3 Disposal of Sewage.

.31 Physical Properties of Sewage.

.32 Deodorization and Disinfection of solids and liquids. See 628.237.

.33 Subsidence.

.34 Precipitation.

1, Precipitation tanks; 2, Mixing Machinery; 3, Filter Presses; 4, Precipitation by Salts of Alumina; 5, By Lime; 6, By Salts of Iron; 7, By Other Methods; 8, Disposal of Sludge; 9, Miscellaneous.

.35 Filtration.

.36 Irrigation.

1, Broad Irrigation; 2, Ridge and Furrow Irrigation; 3, Flat Bed Irrigation; 4, Sub-surface Irrigation; 5, Intermittent Downward Filtration; 6, Carriers and Appurtenances; 7, Drains and Drainage of Sewage Farms; 8, Filtration Areas; 9, Miscellaneous.

.37 Sewage Farming. Required modifications of ordinary methods.

.38 Sewage Manures.

.39 Discharge into Sea, etc.

.4 Sanitation of Towns.

.41 Middens and Privies.

.42 Pail Systems.

.43 Earth Closet Systems.

.44 Domestic Ashes and Garbage.

.45 Public Urinals and Latrines.

.46 Street Cleaning and Sprinkling.

.47 Pavements and Subways.

.48 Trees in Streets and Squares.

.49 Manufacture of Fertilizers from Town Wastes.

.5 Industrial Sanitation.

.51 Factories and Trades.

1, Prevention of Dust and Fumes; 2, Protection of Throat and Eyes; 3, Protection against Infection; 9, Special Trades.

.52 Effluvium Nuisances.

1, Situation of Works; 2, Use of High Chimneys; 3, Condensation in Water; 4, Combustion in Furnaces; 9, Special Trades.

.53 Smoke Nuisance.

8, From Steam Generators; 9, From Special Industries.

.54 Disposal of Solid and Liquid Wastes.

1, Discharge into Streams; 2, Absorbing Wells and Burial; 3, Clarification by Subsidence; 4, Chemical Treatment; 5, Filtration; 6, Purification by the Soil; 9, Special Methods and Special Trades.

.6 House Drainage.

.7 Rural Water Supply. Villages and Country houses.

.8 Ventilation and Heating. See 697, 644, 628.23, 622.4, 621.19.

This head is chiefly for Ventilation. Most matter on Heating goes in 697.

.9 Lighting. See 621.32, 537.83, 644, 665.

629 Other Branches of Engineering.

630 Agriculture.

1, ; 2, Compends; 3, Dictionaries, cyclopedias; 4, Essays; 5, Periodicals, 6, Societies; 7, Study and teaching; 8, ; 9, History, divided like 930–99.

631 Soil. Fertilizers. Drainage.

632 Pests. Hindrances. Blights. Insects.

633 Grains. Grasses. Fibres. Tea. Tobacco, etc.

634 Fruits. Orchards. Vineyards.

.9, Forestry. See also 715, Landscape gardening.

635 Kitchen garden. See 716 for Flower gardens.

636 Domestic animals. See also 619, Veterinary medicine; 599.7, Zoölogy.

.1 Horses. Asses. Mules. See 682.1, Horseshoeing.

.2 Cattle.

.3 Sheep. Goats.

.4 Swine.

.5 Poultry.

.6 Birds.

.7 Dogs.

.8 Cats.

.9 Other. Camels, etc.

637 Dairy. Milk. Butter. Cheese.

638 Bees. Silkworms.

639 Fishing. Trapping.

640 Domestic economy. Hotels. Flats.

See also 334.4, Coöperative housekeeping; 331.83, Laboring classes.

641 Cookery. Gastronomy.

642 Confectionery. Ices.

643 Food. Dining. Carving.

See also 613.2–.3, Hygiene; 663, Beverages; 394.1, Customs.

644 Fuel. Lights. See also 697, 665, 621.32, 621.19.

645 Furniture. Carpets. Upholstery. Plate.

646 Clothing. Toilet. Cosmetics.

See also 613.4, Hygiene; 391, Costume and care of person.

647 Servants. Training. Duties. Wages.

648 Laundry.

649 Nursery. Children. Sick-room.

650 Communication. Commerce.

651 Office equipment and methods.

652 Writing. Materials, typewriters, cipher.

653 Abbreviations. Shorthand.

.01 Theories. Available material. Shading. Position. Detached vowels.
.02 Practicability for general use. Teaching in public schools.
For methods see 653.07.
.03 Speed. See also 653.046, Verbatim reporting.
.04 Applications.
.041, Personal notes and records; .042, Correspondence; .043, Amanuensis work; .044, Newspaper work; .045, Shorthand job offices; .046, Official reporting, court and legislative; .047,
.05 Periodicals. If strictly limited to one system, class with that system.
.06 Societies. " " " "
.07 Education. Shorthand schools. Teaching, privately or in classes.
.08
.09 History. Divided by countries like 930–999.

.1 Abbreviations. Omissions of silent letters, vowels, etc.
Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4, Phonetic spelling; 421.8. Abbreviations.

.2 Abbreviation systems.
Brief longhand. Fonoscribing, etc. For telegraphic codes, see 652.
Covers only systems of quick writing with common characters.

.3 Stenographies.
Includes both discussions and systems with arbitrary signs and new characters.
.31, Before 1837; .32, Gurney; .33, Gabelsberger; .34, Stolze (Dettmann); .35, Taylor (Baker; Harding; Odell); .36, Cross; .37, Scovil; 8, Duployé (Pernin, Sloan).

.4 Phonetic shorthand. Phonographies.
Limited to phonetic stenography, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants.
.41, Before Pitman (1837); .42, Bell; .43, Jones; .44, Williams; .45,

.5 Pitman old vowel scale systems.
.51, Benn Pitman; .52, Graham; .53, Scott-Brown; .54, Marsh; .55, Thornton; .56 Haven; .57, Allen; .58,

.6 Pitman new vowel scale systems.
.61, Izaac Pitman; .62, Munson; .63, Longley; .64, Burnz; .65,

.7 Connected vowel systems.
.71, Lindsley's takigrafy; .72, Everett; .73, Barrows; .74, Bishop.

.8

.9 Foreign systems. Divided by languages like 400.
The heads above are for English systems or (as in .33) foreign systems adapted to and used for English. Other systems are grouped here by languages, but history of shorthand in special countries is in 653.09.

654 Telegraph. Cables. Signals. For codes see 652.

.1 Telegraphic instruments.
.2 Duplex, quadruplex, multiplex telegraphs, etc.
.3 Printing, perforating, dial telegraphs, etc.
.4 Telegraphic construction; poles, wires, conduits, etc.
.5 Cables. Submarine.
.6 Telephones.
.7 Alarms; burglar, fire. Annunciators, bells.
.8 Speaking tubes. Pneumatic tubes.
.9 Signals. See also 534.83, Navigation signals; 623.7, Military signals.

655 Printing. Publishing. Copyright.

.1 History of printing.
.11 Origin. Invention.
.111 Claims of Gutenberg, Mainz.
.112 Claims of Coster, Haarlem.
.12 Celebrations, anniversaries.
1, 1640; 2, 1740; 3, 1823; 4, 1840.
.13–.19 Printing in special countries. Divided like 930–999.

.2 Type and Type Setting.
.21 Type founding. Tools of the art.
.22 Electro and stereotyping, etc. Patent blocks.
For Photo-electrotyping, see 777.
.23 Patent types. Logotypes, etc.
.24 Faces; sizes; styles. Specimen books.
.25 Type setting. Composition. Proof reading.
.26 Artistic composition. Taste. Display. Job work.
.27 Imposition. Locking up, etc.
.28 Type setting and distributing machines. Linotype.

.3 Practical printing. For Calico printing, see 667.2.
.31 Printing presses.
.32 Press work. Making ready. Colors. Cuts.
.33 Drying. Hydraulic pressing, etc.
.34
.35 Stamps, stencils, etc.
.36 Machines. Paging, numbering, addressing, etc.
See also 654.3, Printing telegraphs; 651, Type writers.
.37 Nature printing. From plants, etc.
.38 Printing for blind. See also 371.91, Education of blind.

.4 History of publishing and bookselling.
Divided by countries like 930–999.

.5 Publishing and bookselling.
.51 Selection of mss.
For Freedom of press *vs.* censorship, see 323; Morals of press, 179.1.
.52 Relations to authors. Copyright payments. Prices of mss. bought.
.53 Size, paper, type, illustrations, binding.
.54 Cost of manufacture. Retail prices and discounts to dealers.
.55 Advertising, press copies and notices. See 659, Advertising.
56 Retail bookselling. Prices and discounts to buyers.
.57 Subscription book publishing. Canvassing.
.58 Publishing societies.
.59 Publishing by governments, institutions, etc.

6 Copyright. Literary property.
.61 Perpetual or common law right. Including ethics of copyright.
.62 Copyright in other matter than books. Music, mss., lectures, trademarks.
.63 International copyright. See also 341.5, International private law.
.64–.60 Copyright in special countries. Divided like 940–999.

656 Transportation. Railroading, etc.

657 Book-keeping. Accounts.

658 Business manuals. Methods. Tables.

659 Advertising and other topics.

660 Chemical Technology.

.1, ; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, ; .9, History of Chemical Technology.

661 Chemicals.

.1 Chemical Elements. Divided like 546.
.2 Acids. Sulphuric, Nitric, etc.
.3 Alkalies. Potash, Soda, Ammonia.
.4 Salts. For Common Salt see 664.4.
.5 Ammonia Salts.
.6 Sulphates and Nitrates.
.7 Cyanides.
.8

662 Pyrotechnics, Explosives, Matches, etc.

.1 Pyrotechnics.
.2 Explosives. See Blasting 622.23; Ordnance 623.4.
.3 Gunpowder.
.4 Fuses. Percussion Caps.
.5 Matches.
.6 Fuel. Coal, peat, natural gas, etc.
.7 Charcoal. Coke. See also 644, Domestic economy, 669.8, Metallurgy.
.8 Artificial fuel. See also 644, Domestic economy; 669.8, Metallurgy.
.9

663 Beverages. See also 178, Temperance; 614.35, Adulterations.

.1 Fermented.
.2 Wine.
.3 Brewed.
.4 Beer.
.5 Distilled.
.6 Artificial mineral waters. Soda water.
.7
.8 Mixing drinks. Bar-keepers' manuals.
.9 Chocolate. Cocoa. Commercial mixing of teas, coffees, etc.

664 Foods.

For Adulterations see 614.31, Public health. See also 641 and 643, Domestic economy.

.1 Sugar, molasses, glucose, etc.
.2 Starch, tapioca, sago, etc.
.3 Artificial butter. Oleomargarine. Lard, compound lard.
For butter, milk, and cheese see 637, Dairy.
.4 Salt.
.5 Spices. Condiments.
.6 Yeast. Baking powder.
For Bread see 641, Cookery.
.7
.8 Preservation of fruits and vegetables.
.9 " " meat and fish.

665 Oils. Gases. Candles. Lamps.

.1 Candles. Torches.
.2 Animal oils and fats. See also 664.3, Foods.
.3 Vegetable oils and fats.
.4 Mineral oils. Paraffine. Ozocerite. Asphaltum.
.5 Petroleum. Kerosene.
.6 Lamps. See also 644, Domestic economy.
.7 Illuminating gases. Calcium light.
.8 Other gases.
.9

666 Ceramics. Glass, etc.

.1 Glass. See also 748, Stained glass.
.2 Enamel.
.3 Ceramics. See also 738, Pottery, porcelain.
.4 Clay. See also 553.61, Economic geology.
.5 Porcelain.
.6 Stoneware. Earthenware. Pottery.
.7 Bricks. Tiles. See also 691.4, Building materials; 695.3, Roofing.
.8 Artificial stone. See also 691.3, Building materials.
.9 Cements. Limes. Mortars. See also 691.5, Building materials.

667 Bleaching, dyeing, etc.

.1 Bleaching.
.2 Dyeing. Artificial colors. Silk and wool.
.3 Cotton dyeing and calico printing.
.4 Inks. Writing inks. Indelible inks.
.5 Printing inks.
.6 Paints and pigments. See also 698.1, House painting; 751, Fine arts.
.7 Varnishes. Polish. Lacquer. See also 698.3, Varnishing.
.8 Japan. Blacking.
.9

668 Other organic chemical industries.

.1 Soap.
.2 Glycerine.
.3 Glue.
.4 Gums and resins.
.5 Essences, perfumery, essential oils and ethers, etc. See also 646, Toilet.
.6 Fertilizers. See also 631, Agriculture.
.7 Distillation. Coal tar, etc.

669 Metallurgy and assaying.

History of metals goes here, not in 553, 622, nor 671.

.1 Iron and steel.
.2 Gold and silver.
.3 Copper.
.4 Lead.
.5 Zinc.
.6 Tin.
.7 Mercury and other metals.
.8 Fuels and furnaces. Slags.
.9 Assaying.

670 Manufactures.

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood, etc., manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better; e. g., bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy.

671 Articles made of Metals.

672 Of Iron and Steel; Stoves, Cutlery, etc.

673 Of Brass and Bronze; Bells, etc. See also 739.

674 Lumber and Articles made of Wood.

675 Leather " " " " Leather.

676 Paper " " " " Paper.

677 Cotton, Wool, Silk, Linen, etc.

678 Rubber and Articles made of Rubber.

679 Celluloid and other.

680 Mechanic Trades. Amateur Manuals.

681 Watch and Instrument-making.

682 Blacksmithing.

.1 **Horseshoeing.**

683 Lock and Gun-making.

684 Carriage and Cabinet-making.

685 Saddlery and Shoe-making. Trunks.

686 Bookbinding.

687 Clothes-making. Hats.

688

689 Other Trades.

690 Building. For Architectural Construction, see 721.

.1, Theories of Construction; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies, Exhibitions; .7, Education. Study, Training, Apprenticeship, Tools and their Use (for the use of special tools see special trade); .8, Collections, Patents, Inventions; .9, History of Building Construction.

691 Materials. Processes. Preservatives.

See also 620.1, Strength of Materials.

.1 **Wood. Creosoting, etc.**
.2 **Natural Stone. Parafining, etc.**
.3 **Artificial Stone. Concrete.**
.4 **Bricks. Tiles. Other Ceramic Productions.**
.5 **Lime. Cement. Plaster.**
.6 **Glass.**
.7 **Iron. Steel. Anti-rust Processes.**
.8 **Other Metals.**
.9 **Other Materials.**

692 Plans. Specifications, etc.

.1 **General Drawings.**
.2 **Detail Drawings.**
.3 **Specifications.**
.4 **Contracts. Agreements. Bids. Advertisements.**
.5 **Estimates. Quantities. Cost.**
.6 **Superintendence.**
.7 **Supervision of Accounts.**
.8 **Professional Services. Fees. Commissions.**
.9 **Building Laws. Liabilities of Architects, Owners, and Contractors.**

693 Masonry. Plastering. Fire Proofing.

.1 **Stone Construction.**
.11 Bonds of Stone Work.
.12 Cutting and Dressing of Stone. See 515.8, Stereotomy; 736, Stone Carving.
.2 **Brick Construction.**
.21 Bonds of Brick Work.
.22 Adobe or Sun-dried Brick, etc.
.3 **Terra Cotta Construction.**
.4 **Hollow Tile and Porous Terra Construction.**
.5 **Concrete and Beton Construction.**
.6 **Plastering.**
.61 External Plastering and Stucco.
.62 Internal Plastering.
.63 Ornamental Plaster-work.
.64 Scagliola.
.65 Wooden Lath.
.66 Metal Lath. (Wire, etc.)
.67 Mineral Wool Linings, etc.
.7
.8 **Fire Proofing.**
.9

694 Carpentry. Joinery. Stair-building.
- .1 Wood Construction, General.
- .2 Joints of Wood-work. Framing.
- .3 Strengthened Beams.
- .4 Posts. Columns. See 721.31.
- .5 Panelled and Latticed Construction.
- .6 Joinery, General. For Finishing, varnish, polish, etc., see 698.3.
- .7 Ornamental Joinery. Cabinet-work.
- .8 Stair-building. See 515.83, Stereotomy.
- .9 Other branches. See 721.87–89.

695 Roofing. Slating. Tiling. See 721.4, Roof Constructions.
- .1 Shingle.
- .2 Slate.
- .3 Tile.
- .4 Metal. Tin. Copper. Lead. Zinc.
- .5 Iron.
- .6 Asphalt. Tar. Concrete. (Melted.)
- .7 Felt. Asbestos. Paper. (In rolls.)
- .8 Textile. Duck. Canvas.
- .9 Thatch and other Coverings.

696 Plumbing. Gas and Steam-fitting, etc.
- .1 Plumbing. See 628, Principles of Sanitation.
- .2 Gas-fitting.
- .3 Steam-fitting.
- .4 Rivets and Riveted Joints.
- .5 Screws and Screw Joints.
- .6 Rust or Calked Joints.
- .7 Anchors. Band Irons.
- .8 Other branches.
- .9 Plumbing Laws. See also 614.

697 Heating and Ventilation. See San. Eng., 628.8; Domestic Econ., 644.
- .1 Fireplaces.
- .2 Stoves.
- .3 Furnaces.
- .4 Hot Water, high and low pressure.
- .5 Steam, high and low pressure. For Boilers, see 621.18.
- .6 Gas. Coal Gas, Water Gas, Natural Gas.
- .7 Electric and Other Methods.
- .8 Smoke Flues and Chimneys.
- .9 Ventilation. Air Ducts. Conduits. Fans.

698 Painting. Glazing. Paper-hanging.
- .1 Painting. Oil.
- .2 Distemper and Fresco.
- .3 Varnishing. Polishing.
- .4 Other Modes of Protection.
- .5 Glazing. See 748, Stained Glass.
- .6 Paper-hanging.
- .7 Textile Hangings. Tapestry.
- .8 Relief Work. Lincrusta. Stamped Leather, etc.
- .9 Other branches.

699 Car and Ship Building.

Fine Arts.

700 Fine Arts.

701 Philosophy. Theories. Utility. Æsthetics.

702 Compends. Outlines.

703 Dictionaries. Cyclopedias.

704 Essays. Lectures. Addresses.

705 Periodicals. Magazines. Reviews.

706 Societies. Transactions. Reports, etc.

707 Education. Study and Teaching of Art.

708 Art Galleries and Museums.
- .1 American. Corcoran, Metropolitan, Boston.
- .2 English. National, Hampton Court, Windsor.
- .3 German. Dresden, Munich, Berlin, Vienna.
- .4 French. Louvre, Luxembourg.
- .5 Italian. Vatican, Sistine, Pitti, Medici, Borbonica.
- .6 Spanish. Madrid, Seville.
- .7 Russian. St. Petersburg, Hermitage.
- .8 Scandinavian. Copenhagen.
- .9 Other Countries.

709 History of Art in General. Divided like 930–909.

710 Landscape Gardening.

711 Public Parks.

712 Private Grounds. Lawns.

713 Walks. Drives.

714 Water. Fountains. Lakes.

715 Trees. Hedges. Shrubs.
See also 634.9, Forestry; 582, Botany.

716 Plants. Flowers.
.1, Plants; .2, Flowers; .3, Conservatories; .4, Window gardens; .5, Ferneries.

717 Arbors. Seats. Outlooks.

718 Monuments. Mausoleums.

719 Cemeteries. See also 393.1, Earth burial; 614.61, Public health.

720 Architecture.

.1, Theories, Esthetics, Architectonics; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies; .7, Education, Study Training, Schools of Architecture; .8, Polygraphy, Collections; .9, General History of Architecture, divided geographically like 940–999.

721 Architectural Construction.

.1 Foundations. See Bridge Engineering, 624.1, Foundations.

.11 Dimension Stone.
.12 Rubble Stone.
.13 Concrete.
.14 Sand or Gravel.
.15 Timber Gratings.
.16 Piles. Sand Piles.
.17 Sunken Wells.
.18 Sunken Tubes.
.19 Other Foundations.

.2 Walls.

.21 Wooden and Half-timbered.
.22 Stone.
.23 Artificial Stone, Concrete, Pisé, etc.
.24 Brick.
.25 Bases. Water Tables. Belt Courses.
.26 Arcades. Colonnades.
.27 Cornices.
.28 Gables and Pediments. See also 721.58, Gable Roofs.
.29 Other Walls.

.3 Piers. Columns.

.31 Wooden. See also Carpentry, 694.4.
.32 Stone.
.33 Concrete. Artificial Stone.
.34 Brick. Terra Cotta.
.35 Iron. Steel.
.36 Fire-proof. Protected.
.37
.38
.39

.4 Arched Constructions.

See 624.6, Arched Bridges; and 729.33 and 729.37. elementary forms.

.41 Arches, Circular.
.42 Arches, other forms.
.43 Vaults, Cylindrical.
.44 Vaults, Groined.
.45 Vaults, other forms.
.46 Domes, Circular.
.47 Domes, other forms.
.48
.49

721.5 **Roofs.** See 695, Roof Coverings; 624.9, Engineering, Roofs.

.51 Wooden.
.52 Masonry.
.53 Glass.
.54 Metallic.
.55 Windows. Openings in Roofs.
.56 Roof Decoration. Cresting, Repoussé work, Colored Tiles, etc. See 695.3.
.57 Spires and Domes.
.58 Gables. See also 721.28, Gable Walls.
.59 Other forms of Roofs.

.6 Floors and Flooring.

.61 Wooden. Construction and Coverings.
.62 Stone. " "
.63 Brick and Hollow Tile. " "
.64 Metallic. Compound. " "
.65 Composite. " "
.66 Parquetry. Coverings only.
.67 Mosaics. "
.68 Tiles. See 695.3, Roofing Tile.
.69 Other Coverings.

.7 Ceilings.

.71 Wooden.
.72 Stone.
.73 Brick or Tiles with Iron.
.74 Metallic.
.75 Concrete. Plaster.
.76
.77
.78
.79

For vaulted ceilings, see 721.4 and 729.34.

.8 Doors. Gates. Grilles. Windows.

.81 Doors, Wooden.
.82 Doors, Metallic.
.83 Doors, Sash, Lattice, Screen, etc.
.84 Windows, External.
.85 Windows, Internal.
.86 Enclosures of Doors and Windows.
Architraves. Pilasters. Jambs. Pediments. Lintels, etc.
.87 Shutters. Blinds. Screens. Grilles.
.88 Fastenings. Locks.
.89 Other details.

.9 Iron and Composite Structures.

For Strength of Material, see Engineering, 620.1.

.91 Cast Iron.
.92 Wrought Iron.
.93 Steel.
.94 Composite.
.95 Iron and Wood.
.96 Iron and Stone.
.97 Iron and Brick, Tile, Terra Cotta.
.98 Iron and Glass.
.99 Wood and Glass.

722 Ancient and Oriental Architecture. (Pagan.)

See also 571.8, Prehistoric Dwellings.

- .1 **Chinese. Japanese.**
- .2 **Egyptian.**
- .3 **Phenician. Tyrian. Jewish. Carthaginian. Cypriote.**
- .4 **Indian (Asiatic).**
  Hindoo, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian.
- .5 **Chaldean. Assyrian. Babylonian. Ancient Persian. Sassanian.**
- .6 **Pelasgian. Etruscan.**
- .7 **Roman.** See 729.32 for Roman Orders.
- .8 **Grecian.** See 729.32 for Greek Orders.
- .9 **Other. Aztec. Peruvian. Maya. Yucatan, etc.**

723 Mediæval. (Christian. Mohammedan.)

- .1 **Early Christian.**
- .2 **Byzantine. Armenian. Russian.**
- .3 **Mohammedan. Saracenic. Moorish. Persian, Turkish. Indian.** For Ancient Indian see 722.4.
- .4 **Romanesque.**
  - .41 Scotch. Irish.
  - .42 English. Saxon. Norman.
  - .43 German. Austrian.
  - .44 French. Provençal. Norman. Angevin.
  - .45 Italian. Sicilian Norman.
  - .46 Spanish. Portuguese.
  - .47
  - .48 Danish. Swedish. Norwegian.
  - .49 Minor Countries.
- .5 **Gothic or Pointed.** Divided like 723.4

724 Modern.

All the sub-sections of 724 are subdivided geographically like 040-999.

- .1 **Renaissance.**
- .2 **Grecian Revival.**
- .3 **Gothic Revival.**
- .4 **Victorian Gothic. Tudor.**
- .5 **Queen Anne.**
- .6 **Néo-Grec.**
- .7 **Swiss. Timber.**
- .8 **Romanesque Revival.**
- .9 **Other Styles.**

725 Public Buildings.

- .1 **Administrative. Governmental.**
  - .11 Capitols. Houses of Parliament.
  - .12 Ministries of War, State, etc.
  - .13 City and Town Halls. Bureaus. Public Offices.
  - .14 Custom Houses. Bonded Warehouses. Excise Offices.
  - .15 Court Houses. Record Offices.
  - .16 Post Offices, General and Special.
  - .17 Official Residences. Palaces of Rulers.
  - .18 Barracks. Armories. Police Stations.
  - .19 Engine Houses. Fire Alarm Stations
- .2 **Business and Commercial.**
  - .21 Stores, Wholesale and Retail.
  - .22 Mixed Store, Office, and Apartment Buildings.
  - .23 Office Buildings. Telegraph. Insurance.
  - .24 Banks. Safe Deposit. Savings.
  - .25 Exchanges. Boards of Trade.
  - .26 Markets.
  - .27 Cattle Markets. Stock Yards.
  - .28 Abattoirs.
  - .29 Other Business Buildings.
- .3 **Transportation and Storage.**
  - .31 Railway Passenger Stations.
    - .311 Small (country) Stations.
    - .312 Large (city) "
    - .313 Union "
    - .314 Stations on two levels.
    - .315
    - .316
    - .317 Street-car Stations.
    - .318 Elevated R. R. Stations.
    - .319 Underground R. R. Stations.
  - .32 Railway Freight Houses.
  - .33 Railway Shops, Round Houses, Car Houses, Tanks, Stores.
  - .34 Dock Buildings. Wharf Boats and Houses.
  - .35 Warehouses. Cold Storage. Safe Deposit Storage.
  - .36 Elevators, Grain.
  - .37
  - .38
  - .39 Other.
- .4 **Manufactories.**
  - .41 Textile Factories or Mills. Wool, Cotton, Silk.
  - .42 Breweries. Malteries. Distilleries.
  - .43 Foundries. Machine Shops. Iron and Steel Works.
  - .44 Wood-working Mills. Furniture Factories.
  - .45 Carriage and Car Factories.
  - .46 Paper Mills.
  - .47 Mills for Flour, Meal, Feed, etc.
  - .48 Pottery, Glass, Terracotta, Brick Works.
  - .49 Other Manufactories.

725.5 **Hospitals and Asylums.** See also 725.6. Reformatories.
.51 Sick and Wounded. Eye and Ear. Incurables. Lying-in.
.52 Insane.
.53 Idiotic. Feeble-minded.
.54 Blind. Deaf and Dumb.
.55 Paupers. Almshouses.
.56 Aged.
.57 Children. Orphans.
.58 Foundling.
.59 Soldiers' Homes.
.6 **Prisons and Reformatories.**
.61 State Prisons. Penitentiaries.
.62 Jails. Cell Houses.
.63 Reformatories for Adults. Houses of Correction.
.64 Reform Schools.
.65 Washingtonian Homes. Inebriate Asylums.
.66
.7 **Refreshment. Baths. Parks.**
.71 Cafés. Restaurants.
.72 Saloons.
.73 Baths; Warm, Medicated, Turkish, Russian.
.74 Swimming Baths.
.75 Buildings for Watering Places, Spas, etc.
.76 Buildings for Parks.
.8 **Recreation.**
.81 Music Halls.
.82 Theatres. Opera Houses.
.83 Halls for Lectures, Readings, etc.
.84 Bowling Alleys. Billiard Saloons.
.85 Gymnasiums. Turn Halls.
.86 Skating Rinks. Bicycle Rinks.
.87 Boat Houses.
.88 Riding Halls and Schools.
.89 Shooting Galleries.
.9 **Other Public Buildings.**
.91 Exhibition Halls.
.92 Temporary Halls. Tabernacles. Wigwams.
.93 Workingmen's Clubs and Institutes.
.94

726 Ecclesiastical and Religious.

.1 **Temples.**
.2 **Mosques.**
.3 **Synagogues.**
.4 **Chapels. Sunday-school Buildings.**
.5 **Churches.**
.6 **Cathedrals.**
.7 **Monasteries. Convents. Abbeys.**
.8 **Mortuary. Cemetery Chapels. Receiving Vaults. Tombs**
.9 **Other. Y. M. C. A., etc.**

727 Educational and Scientific.

.1 **Schools.**
Study and Recitation Rooms. Not including dormitory or boarding.
.2 **Academies. Seminaries. Boarding Schools.**
.3 **Colleges. Universities.**
.4 **Professional and Technical Schools. Law, Theology, etc.**
.5 **Laboratories; Physical, Chemical** see 542.1, **Biological, etc. Zoölogical and Botanic Gardens** see also 590.7 and 580.7.
.6 **Museums. Herbariums** see 580.7.
.7 **Art Galleries. Studios.**
.8 **Libraries.** See 022, Library Buildings.
.9 **Other. Learned Societies, etc.**

728 Residences.

.1 **Tenement Houses.**
.11 City Homes of Poor.
.12 Country "
.13 Cités Ouvrières.
.2 **Apartment Houses. Flats. Family Hotels.**
.3 **City Houses. Mansions. Palaces.**
.31 Between party-walls. Stone.
.32 " " Brick.
.33 " " Partly wood.
.34 Semi-detached, including end houses in city blocks. Stone.
.35 " " " Brick.
.36 " " " Partly wood.
.37 Detached. Stone.
.38 " Brick.
.39 " Partly wood.
.4 **Club Houses. Buildings for Secret Societies.**
.5 **Hotels. Inns.**
.51 City Hotels.
.52 Summer Resorts.
.53 Country Inns.
.6 **Village and Country Homes.**
.61 Village Dwellings. On small lots.
.62 Stone.
.63 Brick.
.64 Concrete or stucco.
.65 Part masonry, part wood.
.66 All wood.
.67 Farm Houses.
.68 Laborers' Cottages.
.7 **Seaside and Mountain Cottages. Chalets.**
.8 **Country Seats.**
.81 Castles.
.82 Chateaux.
.83 Manor Houses.
.84 Villas.

728.9 **Out-Buildings.**

.91 Porter's Lodges.
.92 Servants' Quarters.
.93 Kitchens and Laundries.
.94 Stables. Carriage Houses.
.95 Barns. Granaries.
.96 Dairies.
.97 Ice Houses.
.98 Conservatories. Green Houses. Graperies.
.99 Other.

729 Architectural Design and Decoration.

.1 **The Elevation.**

.11 Composition.
.12 Distribution.
.13 Proportion.
.14 Light and Shade.
.15 Perspective effect.
.16
.17
.18
.19

For projection of shadows and graphics of light and shadow see 515.63 and 515.7.

.2 **The Plan.**

.21 Elements required.
.22 Distribution.
.23 Proportion.
.24
.25
.26
.27
.28
.29

.3 **Elementary Forms.** For construction of these forms see 721.

.31 Walls. Mouldings. Cornices.
.32 Piers, Columns, Pilasters, Pedestals and the Orders. Colonnades.
.33 Arches and Arcades.
.34 Vaults and Domes.
.35 Roofs. Spires. Dormers.
.36 Towers.
.37 Gables and Pediments.
.38 Doors and Windows. Bays. Oriels.
.39 Stairs and Balustrades. See also 515.83. Stereotomy; 694 *, Building

.4 **Painted Decoration.**

See also 729.7. Mosaic.

.41 Vegetable forms.
.42 Animal forms.
.43 Grotesque forms.
.44 Conventional and Geometric Forms.
45 Painted Moldings.
.46 Painted Friezes and Panels.
.47 Painted Columns and Pilasters.
.48 Painted Ceilings and Vaults.
.49 Painted Walls.

729.5 **Decoration in Relief.** For Bas Relief and Figure Carving see 730.

.51 Vegetable forms.
.52 Animal forms.
.53 Grotesque forms.
.54 Conventional and Geometric forms.
.55 Carved Moldings.
.56 Carved Friezes and Panels.
.57 Carved Columns and Pilasters.
.58 Carved Ceilings and Vaults.
.59 Other Carved Ornament.

.6 **Incrustation and Veneering.**

.61 Of External Walls (in brick, stone, or marble, tiles, etc.).
.62 Of Interiors.
.63 Intarsia and Inlay.
.64 Niello-work.
.65 Enamel Decoration.
.66
.67
.68
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.7 **Mosaic.**

.71 Mosaic Ceilings.
.72 Mosaic Walls.
.73 Mosaic Floors.
.74 Other Mosaic designs.
.75
.76
.77
.78
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.8 **Stained Glass Design.** For technical processes see 666.1; for history see 748.

.81 Geometric Windows.
.82 Medallion Windows.
.83 Canopy Windows.
.84 Figure Windows.
.85 Mosaic Windows.
.86 Other kinds of stained glass.
.87
.88
.89

.9 **Architectural Accessories and Fixed Furniture.**

.91 Altars.
.92 Pulpits. Tribunes.
.93 Dais. Thrones.
.94 Buffets.
.95 Mantels. Overmantels.
.96 Screens. Rood Screen. Reredos.
.97
.98
.99

730 Sculpture.

731 Materials and Methods.

732 Ancient.

733 Greek and Roman.

734 Medieval.

735 Modern.

736 Carving. Seals. Dies. Gems. Cameos.

737 Numismatics. Coins. Medals.

738 Pottery. Porcelain.

739 Bronzes. Brasses. Bric-a-brac.

740 Drawing. Decoration. Design.

741 Free-hand. Crayon. Sketching from Nature. Caricatures. Cartoons.

Collections on any subject go with that subject with reference from 741.

742 Perspective. See also 515.6.

743 Art Anatomy. Life School.

744 Mathematical and Scientific Drawing. See 515.

745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.

746 Art Needlework. Fancy Work.

747 Interior Decoration. Distemper. Fresco. Polychrome.

748 Stained and Iridescent Glass. For Leading, see 698.5.

749 Artistic Furniture. Fireplaces. Frames, etc.

750 Painting.

751 Materials and Methods.

752 Color. See 535.6, Optics.

753 Epic. Mythic. Idealistic. See 759.3, German School.

754 Genre. Still Life. See 759.4, French; and 759.9, Belgian.

755 Religious. Ecclesiastic. See 759.5, Italian; and 759.6 Spanish.

756 Historical. Battle Scenes.

757 Portrait.

758 Landscape and Marine. Animals. Flowers.

759 Various Schools of Painting.

1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other Schools.

760 Engraving.

761 Wood.

762 Copper and Steel.

763 Lithography.

764 Chromolithography.

765 Line and Stipple.

766 Mezzotint and Aquatint.

767 Etching. Dry Point.

768 Bank Note and Machine.

769 Collections of Engravings.

770 Photography.

771 Materials. Photographic Chemistry.

772 Silver Processes. Daguerreotype. Talbotype. Collodion Process. Ambrotype, etc. Dry-Plate Processes.

773 Gelatine and Pigment Processes. Woodburytype. Carbon Process. Lambertype. Autotype, etc.

774 Gelatine and Printer's Ink Processes. Albertype. Heliotype. Artotype, etc.

775 Photo-lithography, etc.

776 Photo-zincography, etc.

777 Photo-engraving and Photo-electrotyping.

778 Special Applications. See 522.63, Astronomy. See 578, Microscopy.

779 Collections of Photographs.

780 Music.

.1, Philosophy and Æsthetics of Music; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Conservatories; .8, Polygraphy. Libraries; .9, History, divided by countries, like 930–999. All heads include both the music itself and everything about it: Score, Libretto, History, Criticism, etc.

781 Theory of Music.

.1 Mathematical and Physical.

.2 Elementary and General.

.3 Harmony. Thoroughbass.

.4 Counterpoint.

.5 Musical Form.

.6 Composition and Instrumentation.

.7 Oriental Theories and Forms. Russian Music.

.8 Ancient Grecian Theories, Modes, and Forms.

.9

782 Dramatic Music.

.1 Grand Opera.

.2 Epic. Wagnerian.

.3 Other German Grand Opera.

.4 French Grand Opera.

.5 Italian Grand Opera.

.6 Comic and Satirical.

.7 Opera Bouffe.

.8 Operettas and Cantatas. See 783.4.

.9 Pantomimes. Masks, etc.

783 Sacred Music. See 245, Hymnology, Sacred Poetry for hymns alone; if with tunes they go in 783.9; 786.8, Organ; 246.7–8, Evangelistic use and Eucharistic music; 264.2, Public Worship.

.1 Organ and Orchestral. Accompaniment.

.2 Cathedral Services. Masses. Vespers, etc.

.21, Mass. Communion Services; .22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; .23, Proper of the Season; Offertory, Sequence, Gradual, Tract; .24, Choral Service; Antiphonal, Responsive; .25, Plain Song; .26, Litanies; .27, Lenten and Penitential; Good Friday, "Reproaches"; .28, Festival; Christmas, Easter, etc.; .29, Processional. Recessional.

.3 Oratorio. Passion Music.

.4 Anthem. Motet. Sacred Cantata. Polyphonic School, Palestrina. 16th Century.

.5 Chant. Gregorian. Anglican.

.6 Chorale. Tune. Carol.

.7 Evangelistic. Mission. Revival. Sunday School.

.8 Choir. Men and Boys. Quartet. Chorus.

.9 Congregational Singing. Psalmody. Hymnody.

784 Vocal Music.

.1 Glee. Madrigal. Round. Catch.

.2 Aria. Cavatina. Recitative. e. g in Oratorio, Mass, Opera.

.3 Ballad and Song. Romantic. Idyllic. Sentimental. e. g. Modern German.

.4 Popular Ballads. Volkslied. e. g. Irish, Scotch, etc.

.5 Festival. e. g. Sængerbund. Eisteddfod. Competitive.

.6 College, Society Songs, and Choruses.

.7 Negro Minstrelsy. Plantation Songs.

.8 Collected Songs.

.81 Solos; .82, Duets; .83, Trios; .84, Quartets; .85, Other Part Songs; .86, Choruses; .87, Collections for Male Voices; .88, Collections for Female Voices; .89, Other Special Collections.

.9 Vocal Hygiene, Culture, Development, and Methods. Tonic-Sol-Fa.

785 Orchestral Music.

For Dramatic Orchestral Music, see 782; Sacred, 783.1.

.1 Symphony, Three or more movements; e. g. Adagio, Andante, Allegro, Allegretto, Scherzo, Finale, etc.

.2 Dramatic, Illustrative, Descriptive, Imitative.
e. g. Mendelssohn's Mid-Summer Night's Dream.

.3 Romantic. Idyllic.

.4 Program Music.

.5 Overture. e. g. Beethoven's "Leonores.

.6 Concerto. Orchestral with Solo Instrument.

.7 Chamber Music.

.8 Suite.

.9 Arrangements. Transcriptions. Pot Pourris.

786 Piano and Organ.

.1 Piano. History.

.2 Manufacture. Tuning. Temperament.

.3 Instruction.

.4 Piano Music. General Collections. For Piano Concerto. see 785.6.

.41 Sonata. Sonatina. Rondo.

.42 Fantasia. Arabesque.

.43 Nocturne. Meditation. Songs without Words. Romantic. Descriptive.

.44 March and March-form. Polonaise. Polka. Mazourka.

.45 Dance-form. National. Classical. Idealized.

.46 Modern Dance Music. Society. Festive.

.47 Etudes. Artistic. For Etudes for Instruction, see 786.3.

.48 Variations. Transcriptions.

.49 Arrangements. Four Hands and more. e. g. Orchestral Music arranged for Piano.

786.5 Organ. History.

.6 Building.

.7 Instruction.

.8 Organ Music. See 783, Sacred Music.

.81 Sonata. .82 Fugue. .83 Preludes. .84 Interludes. .85 Postludes. .86 Offertories. .87 Voluntaries. Improvisation. .88 Organ and Piano. .89 Organ, Piano, and Orchestra.

.9 Cabinet Organ. Melodeon.

787 Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc. Music for two instruments is put with the one most prominent in the composition.

Bowed.

.1 Violin.

.2 Viola.

.3 Violoncello.

.4 Double Bass. Contra Bass.

Plectral.

.5 Harp.

.6 Guitar. Lute. Mandolin, etc.

.7 Banjo.

.8 Zither.

.9 Other Stringed Instruments. Harpsichord.

788 Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 Trumpet. Slide and Valve.

.2 Trombone.

.3 Cornet.

.4 Horns and other Brass Wind Instruments.

.41 French Horn.

.42 Saxhorn.

.43 Saxophone.

.44 Euphonium.

.45 Ophicleide.

.46 Key Bugle.

.47 Valve Bugle.

.48 Bass. Tuba and Contrabass Tuba. Serpent.

.49 Other.

Wood. Flute Group.

.5 Flute. Waldflute. Piccolo. Fife. Flageolet.

Wood. Reed Group.

.6 Clarinet. Bass Clarinet. Bassethorn.

.7 Oboe. D'amore. Da Caccia. Cor Anglais.

.8 Bassoon. Double Bassoon. Bombardon.

.9 Other Reed Wind Instruments. Bagpipe.

789 Percussion and Mechanical Instruments.

Percussion.

.1 Drum.
.2 Cymbals.
.3 Triangle.
.4 Tambourine. Castanets. Bones.
.5 Bells. Chimes. Carillon.
.6 Other Percussion Instruments. Xylophone.

Mechanical.

.7 Orchestrion.
.8 Music Box.
.9 Other Mechanical Instruments.

790 Amusements. For Ethics of amusements, see 175.

791 Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair, Festival.

792 Theater. Pantomime. Opera. See also 782, Dramatic music.

793 In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

794 Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

795 Games of Chance.

Cards, Dice, Backgammon, Dominoes.

796 Out-door Sports.

Children's Sports, Athletic Sports, Coasting, Skating, Cycling, Quoits, Archery, Croquet, Lawn Tennis.

797 Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, Polo.

798 Horsemanship and Racing.

799 Fishing, Hunting, Target Shooting.

Literature.

The classification of literature is by *language* not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assigned to individual authors include only their *literary* works of that section and complete works which cannot be divided. Books on other subjects go with their proper subjects, unless a "special library" attracts all the authors' works, lives, etc. An author writing in two periods has all his books put in the one where most of them belong.

800 Literature. General Works.

801 Philosophy. Theories. Literary Æsthetics.

802 Compends. Outlines.

803 Dictionaries. Cyclopedias.

804 Essays. Lectures. Addresses.

805 Periodicals. Magazines. Reviews.

806 Societies. Transactions. Reports, etc.

807 Study and Teaching of Literature.

808 Rhetoric. Treatises. Collections.

Divided .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; see also 784.9, Vocal Culture; .6, Letters, Epistolography; .7, Satire, Humor; .8, Collections too general to go with any one language, e. g. a book of Quotations from many languages.
These heads, and the same under 809, include only works about Poetry, etc., regardless of language.

809 History of Literature in general. Including general histories of books and knowledge; e. g. Hallam's Literature of Middle ages.
Divided like 808. .1, Poetry; .2, Drama; .3, Fiction, etc.

810 American Literature. Includes Canadian English.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on American Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of American Literature.

811 American Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; 09, History of American Poetry.

.1 **Colonial, 1607–1776.**

.11	Sandys, George	1577–1644.
.12	Bradstreet, Anne	1612–1672.
.13	Wigglesworth, Michael	1631–1705.
.14	Green, Joseph	1706–1780.
.15	Livingston, William	1723–1790.
.16	Ferguson, Elizabeth	1739–1801.

.2 **Post-Revolutionary, 1776–1830.**

.21	Trumbull, John	1750–1831.
.22	Dwight, Timothy	1752–1817.
.23	Barlow, Joel	1755–1812.
.24	Freneau, Philip	1752–1832.
.25	Alsop, Richard	1761–1841.
.26	Pierpont, John	1785–1866.
.27	Dana, Richard Henry	1787–1879.
.28	Sprague, Charles	1791–1875.
.29	Minor Poets.	

811.3 **Middle 19th Century, 1830–1861.**

.31	Halleck, Fitz-Greene	1790–1867.
.32	Poe, Edgar Allan	1809–1849.
.33	Bryant, William Cullen	1794–1878.
.34	Longfellow, Henry Wadsworth	1807–1882.
.35	Read, Thomas Buchanan	1822–1872.
.36	Whittier, John Greenleaf	1807–1892.
.37	Lowell, James Russell	1819–1891.
.38	Whitman, Walt	1819–1892.
.39		

.4 **Later 19th Century, 1861–**

.41	Stoddard, Richard Henry	1825–
.42	Hayne, Paul Hamilton	1831–1886.
.43	Stedman, Edmund Clarence	1833–
.44	Winter, William	1836–
.45	Miller, Cincinnatus Hiner, (Joaquin.)	1841–
.46	Taylor, Bayard	1825–1878.
.47		
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812 American Drama.

.1 **Colonial, 1607–1776.**

.11	Warren, Mercy	1728–1814.
.12	Godfrey, Thomas	1736–1763.
.13		

.2 **Post-Revolutionary, 1776–1830.**

.21	Tyler, Royall	1757–1826.
.22	Dunlap, William	1766–1839.
.23	Hillhouse, James Abraham	1789–1841.
.24	Ingersoll, Charles Jared	1782–1862.
.25		

.3 **Middle 19th Century, 1830–1861.**

.31	Ritchie, Anna Cora Mowatt	1818–1870.
.32	Mathews, Cornelius	1817–1889.
.33	Boker, George Henry	1823–1890.
.34		

.4 **Later 19th Century, 1861–**

.41

813 American Fiction.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Brackenridge, Hugh Henry	1748–1816.
.22	Rowson, Susanna	1762–1824.
.23	Brown, Charles Brockden	1771–1810.
.24	Cooper, James Fenimore	1789–1851.
.25	Ware, William	1797–1852.
.26	Neal, John	1793–1876
.27		
.28		
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813.3 **Middle 19th Century, 1830–1861.**

.31	Thompson, Daniel Pierce	1795–1868.
.32	Kennedy, John Pendleton	1795–1870.
.33	Hawthorne, Nathaniel	1804–1864.
.34	Judd, Sylvester	1813–1853.
.35	Simms, William Gilmore	1806–1870.
.36	Melville, Herman	1819–1891.
.37	Stowe, Harriet Beecher	1812–
.38		
.39		

.4 **Later 19th Century, 1861–**

.41	Alcott, Louisa May	1832–1888.
.42	Eggleston, Edward	1837–
.43	Howells, William Dean	1837–
.44	Aldrich, Thomas Bailey	1836–
.45	Harte, Francis Bret	1839–
.46	James, Henry	1843–
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–
.49	Minor Novelists.	

814 American Essays.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Rush, Benjamin	1745–1813.
.22	Webster, Noah	1758–1843.
.23	Channing, William Ellery	1780–1842.

.3 **Middle 19th Century, 1830–1861.**

.31	Ossoli, Margaret Fuller	1810–1850.	
.32	Giles, Henry	1809–1882.	
.33	Tuckerman, Henry Theodore	1813–1871.	
.34	Holland, Josiah Gilbert	1819–1881.	
.35	Whipple, Edwin Percy	1819–1886.	
.36	Emerson, Ralph Waldo	1803–1882.	See also 191.3.
.37	Curtis, George William	1824–1892	

.4 **Later 19th Century, 1861–**

.41	Burroughs, John	1837–
.42		
.43		
.44		

815 American Oratory.

.1 **Colonial, 1607–1776.**

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.2 **Post-Revolutionary, 1776–1830.**

.21	Hamilton, Alexander	1757–1804.
.22	Ames, Fisher	1758–1808.
.23	Wirt, William	1772–1834.
.24	Randolph, John	1773–1833.
.25	Clay, Henry	1777–1852.
.26	Calhoun, John Caldwell	1782–1850.
.27	Webster, Daniel	1782–1852.
.28		
.29		

815.3 **Middle 19th Century, 1830–1861.**

.31	Everett, Edward.	1794–1865.
.32	Choate, Rufus.	1799–1859.
.33	Sumner, Charles.	1811–1874.
.34	Phillips, Wendell.	1811–1884.
.35	Chapin, Edwin Hubbell.	1814–1880.
.36	Beecher, Henry Ward.	1813–1887.

.4 **Later 19th Century, 1861–**

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.43

816 American Letters.

Subdivided by periods, like 811

817 American Satire and Humor.

.1 **Colonial, 1607–1776.**

.11	Ward, Nathaniel.	1570–1653.
.12	Alsop, George.	1638– ?
.13	Byles, Mather.	1706–1788.
.14	Hopkinson, Francis.	1737–1791.
.15	Peters, Samuel Andrew.	1735–1826.

.2 **Post-Revolutionary, 1776–1830.**

.21	Story, Isaac.	1774–1803.
.22	Fessenden, Thomas Green.	1771–1837.
.23	Paulding, James Kirke.	1779–1860.
.24	**Irving, Washington.**	1783–1859.
.25	Verplanck, Gulian Crommelin.	1786–1870.

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.27

.3 **Middle 19th Century, 1830–1861.**

.31	Neal, Joseph Clay.	1807–1847.
.32	**Holmes, Oliver Wendell.**	1809–1894.
.33	Shelton, Frederick William.	1814–1881.
.34	Shillaber, B. P. (Mrs. Partington.)	1814–1890.
.35	Saxe, John Godfrey.	1816–1887.
.36	Cozzens, Frederick Swartout.	1818–1869.
.37	Browne, C. F., (Artemus Ward.)	1834–1867.
.38	Haliburton, Thomas Chandler.	1796–1865.
.39	Minor Satirists and Humorists.	

.4 **Later 19th Century, 1861–**

.41	Warner, Charles Dudley.	1829–
.42	Locke, David Ross, (Nasby.)	1833–1888.
.43	Burdette, Robert J.	1844–
.44	Clemens, S. L., (Mark Twain.)	1835–
.45	Carleton, William.	1845–
.46	Shaw, Henry W., (Josh Billings.)	1818–1885.

.47

818 American Miscellany.

.3 **Middle 19th Century, 1830–1861.**

.31	Thoreau, Henry David.	1817–1862.
.32	Mitchell, Donald Grant, (Ik Marvel.)	1822–

820 English Literature.

820.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; .09, History of English Poetry.

.1 **Early English, 1066–1400.**

.11	Layamon	1150–1207.
.12	Ormin	1187–1237.
.13	Robert of Gloucester	1245–1307.
.14	Minot, Lawrence	1313–1352.
.15	Langland, William	1332–1399.
.16	Barbour, John	1316–1395.
.17	**Chaucer, Geoffrey**	1340–1400.
.18	Gower, John	1325–1408.
.19	Minor Writers.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Lydgate, John	1369–1461.
.22	Skelton, John	1460–1529.
.23	Dunbar, William	1460–1520.
.24	Douglas, Gavin	1474–1522.
.25	Hawes, Stephen	1483–1509.
.26	Lyndsay, Sir David	1490–1555.
.27	Wyatt, Sir Thomas	1503–1542.
.28	Surrey, Henry Howard, earl of	1517–1547.
.29	Minor Writers.	

.3 **Elizabethan, 1558–1625.**

.31	**Spenser, Edmund**	1553–1599.
.32	Sidney, Sir Philip	1554–1586.
.33	Daniel, Samuel	1562–1619
.34	Drayton, Michael	1563–1631.
.35	Davies, John	1569–1626.
.36	Drummond, William	1585–1649.
.37	Fletcher, Giles and Phineas	1585–1650.
.38	Herbert, George	1593–1632.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625–1702.**

.41	Suckling, Sir John	1609–164?.
.42	Crashaw, Richard	1616–1650.
.43	Herrick, Robert	1591–1674.
.44	Waller, Edmund	1605–1687.
.45	Lovelace, Richard	1618–1658.
.46	Cowley, Abraham	1618–1667.
.47	**Milton, John**	1608–1674.
.48	**Dryden, John**	1631–1700.
.49	Minor Writers.	

821.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51	Prior, Matthew	1664–1721.	
.52	Parnell, Thomas	1679–1717.	
.53	**Pope, Alexander**	1688–1744.	See also 827.5e.
.54	Ramsay, Allan	1686–1758.	
.55	Young, Edward	1684–1765.	
.56	Thomson, James	1700–1748.	
.57	Collins, William	1721–1759.	
.58	Shenstone, William	1714–1763.	
.59	Minor Writers.		

.6 **Later 18th Century,** Pre-Revolutionary, **1745–1800.**

.61	Gray. Thomas	1716–1771.	
.62	Akenside, Mark	1721–1770.	
.63	Chatterton, Thomas	1752–1770.	
.64	Goldsmith, Oliver	1728–1774.	See also 823.64 and 824.66.
.65	Cowper, William	1731–1800.	
.66	Macpherson, James	1738–1796.	
.67	**Burns, Robert**	1759–1796.	
.68	White, Henry Kirke	1785–1806.	
.69	Minor Writers.		

.7 **Early 19th Century,** Post-Revolutionary, **1800–1837.**

.71	Wordsworth, William	1770–1850.	
.72	Coleridge, Samuel Taylor	1772–1834.	
.73	Southey, Robert	1774–1843.	
.74	Scott, Sir Walter	1771–1832.	See also 823.73.
.75	Moore, Thomas	1779–1852.	
.76	Byron, Geo. Gordon Noel	1788–1824.	
.77	Shelley, Percy Bysshe	1792–1822.	
.78	Keats, John	1795–1821.	
.79	Minor Writers.		

.8 **Victorian Period, 1837–**

.81	Tennyson, Alfred	1809–1892.
.82	Browning, Elizabeth Barrett	1809–1861.
.83	Browning, Robert	1812–1889.
.84	Rossetti, Dante Gabriel	1828–1882
.85	Morris, William	1834–1896.
.86	Swinburne, Algernon Charles	1837–
.87		
.88		
.89	Minor Writers.	

822 English Drama.

.1 **Early English, 1066-1400.**

.11	Chester Plays.
.12	Coventry Plays.
.13	Townley Plays.

.2 **Pre-Elizabethan, 1400-1558.**

.21	Heywood, John	1506–1565.
.22	Udall, Nicholas	1505–1564.
.23	Bale, John	1495–1563.

.3 **Elizabethan, 1558-1625.**

.31	Greene, Robert	1561–1592.
.32	Marlowe, Christopher	1564–1593.
.33	**Shakespere, William**	1564–1616.
.34	**Jonson, Ben**	1574–1637.
.35	**Beaumont, Francis and Fletcher, John**	1576–1625.
.36	Webster, John	1582–1652.
.37	Massinger, Philip	1584–1640.
.38	Ford, John	1586–1639.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625-1702.**

.41	Davenant, Sir William	1605–1668.
.42	Etherege, Sir George	1637–1688.
.43	Crowne, John	1644–1699.
.44	Wycherly, William	1640–1715.
.45	Otway, Thomas	1651–1685.
.46	**Congreve, William**	1670–1729.
.47	Vanbrugh, Sir John	1666–1726.
.48	Farquhar, George	1678–1707.
.49	Minor Writers.	

.5 **Queen Anne,** Early 18th Century, **1702-1745.**

.51	Dennis, John	1657–1734.
.52	Southerne, Thomas	1660–1746.
.53	Centlivre, Mrs. Susannah (Freeman)	1668–1723.
.54	Cibber, Colley	1671–1757.
.55	Rowe, Nicholas	1674–1718.
.56	Gay, John	1688–1732.
.57	Lillo, George	1693–1739.
.58		
.59	Minor Writers.	

.6 **Later 18th Century, 1745-1800.**

.61	Garrick, David	1716–1779.	
.62	Foote, Samuel	1721–1777.	
.63	Colman, George, the elder	1732–1794.	
.64	Home, John	1724–1808.	
.65	Cumberland, Richard	1732–1811.	
.66	**Sheridan, Richard Brinsley**	1751–1816.	See also 825.64.
.67	Inchbald, Mrs. Elizabeth (Simpson)	1753–1821.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800-1837.**

.71	Baillie, Joanna	1762–1851.
.72	Knowles, James Sheridan	1784–1862.

.8 **Victorian Period, 1837-**

823 English Fiction.

.1 **Early English, 1066–1400.**

.2 **Pre-Elizabethan,** (More's Utopia,) **1400–1558.**

.3 **Elizabethan,** (Lyly's Euphues,) **1558–1625.**

.4 **Post-Elizabethan, 1625–1702.**

.41	Harrington, James	1611–1677.	
.42	**Bunyan, John**	1628–1688.	
.43	Mackenzie, George	1636–1691.	
.44	Behn, Aphra	1640–1689.	

.5 **Queen Anne, 1702–1745.**

.51	DeFoe, Daniel	1661–1731.	
.52	Fielding, Henry	1707–1754.	

.6 **Later 18th Century, 1745–1800.**

.61	Richardson, Samuel	1689–1761.	
.62	Sterne, Laurence	1713–1768.	
.63	Smollett, Tobias George	1721–1771.	
.64	**Goldsmith, Oliver**	1728–1774.	See also 821.64 and 824.66
.65	Mackenzie, Henry	1745–1831.	
.66	Arblay, Frances (Burney), madame d'	1752–1840.	
.67			
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Lewis, Matthew Gregory	1775–1818.	
.72	Edgeworth, Maria	1767–1849.	
.73	**Scott, Sir Walter**	1771–1832.	See also 821.74.
.74	Austen, Jane	1775–1817.	
.75	Porter, Jane	1776–1850.	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839.	
.78	Marryat, Frederick	1792–1848.	
.79	Minor Writers.		

.8 **Victorian Period, 1837–**

.81	Brontë, Charlotte	1816–1855.	
.82	**Thackeray, William Makepeace**	1811–1863.	
.83	**Dickens, Charles**	1812–1870.	
.84	Lytton, Edw. Geo. Bulwer, 1st baron	1803–1873.	
.85	Kingsley, Charles	1819–1875.	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–1881.	
.87	Trollope, Anthony	1815–1882.	
.88	**Eliot, George**	1819–1880.	
89	Minor Writers.		

824 English Essays.

3 **Elizabethan,** (Bacon,) **1558–1625.**

.4 **Post-Elizabethan,** (Locke), **1625–1702.**

.5 **Queen Anne, 1702–1745.**

.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713.	
.52	**Addison, Joseph**	1672–1719.	
.53	Steele, Sir Richard	1671–1729.	
.54	Budgell, Eustace	1686–1737.	
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.6 **Later 18th Century, 1745–1800.**

.61	Moore, Edward	1712–1757.	
.62	Kames, Henry Home, lord	1696–1782.	
.63	**Johnson, Samuel**	1709–1784.	
.64	Hume, David	1711–1776.	See also 192.4.
.65	Hawkesworth, John	1715–1773.	
.66	Goldsmith, Oliver	1728–1774.	See also 821.64 and 823.64.
.67	Gibbon, Edward	1737–1794.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Mackintosh, Sir James	1765–1832.	
.72	Smith, Sydney	1771–1845.	
.73	Jeffrey, Francis, lord	1773–1850.	
.74	Brougham, Henry, 1st baron	1778–1868.	
.75	**Lamb, Charles**	1775–1834.	
.76	Hazlitt, William	1778–1830.	
.77	Hunt, Leigh	1784–1859.	
.78			
.79	Minor Writers.		

.8 **Victorian Period, 1837–.**

.81	De Quincey, Thomas	1785–1859.	
.82	Carlyle, Thomas	1795–1881.	
.83	Macaulay, Thomas Babington, 1st baron	1800–1859.	
.84	Helps, Sir Arthur	1817–1875	
.85	Arnold, Matthew	1822–88	
.86	Ruskin, John	1810–	
.87			
.88			
.89	Minor Writers.		

825 English Oratory. For Speakers see 808.5.

Subdivided by periods like 821.

.6 Later 18th Century, 1745–1800.

.61 Chatham, William Pitt, 1st earl of 1708–1778.
.62 **Burke, Edmund** 1729–1797.
.63 Fox, Charles James 1749–1806.
.64 **Sheridan, Richard Brinsley** 1751–1816. See also 822.66.
.65 Grattan, Henry 1750–1820.
.66 Pitt, William 1759–1806.

826. English Letters.

Subdivided by periods like 821.

.2 Pre-Elizabethan, (Paston Letters,) **1400–1558.**

.5 Queen Anne, 1702–1745.

.51 Montagu, Lady Mary (Pierrepont) Wortley 1690–1762.
.52 Chesterfield, Philip Dormer Stanhope, 4th earl of 1694–1773.
.53

.6 Later 18th Century, 1745–1800.

.61 Orford, Horace Walpole, 4th earl of 1717–1797.
.62 Montagu, Mrs. Elizabeth (Robinson) 1720–1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400–1558.

.21 Barclay, Alexander 1475–1552.

.3 Elizabethan, 1558–1625.

.31 Gascoigne, George 1537–1577.
.32 Harington, Sir John 1561–1612.
.33 Hall, Joseph 1574–1656.
.34 Marston, John 1575–1634.
.35 Donne, John 1573–1631.
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.4 Post-Elizabethan, 1625–1702.

.41 Wither, George 1588–1667.
.42 **Butler, Samuel** 1612–1680
.43 Marvell, Andrew 1620–1678.
.44 D'Urfey, Thomas 1625–1723.
.45 Oldham, John 1653–1683.
.46 Brown, Thomas 1663–1704.
.47 King, William 1663–1712.
.48 Garth, Sir Samuel 1665–1719.
.49 Minor Writers.

827.5 Queen Anne, 1702–1745.

.51 Ward, Edward 1667–1731.
.52 **Swift, Jonathan** 1667–1745.
.53 Mandeville, Bernard de 1670–1733.
.54 Arbuthnot, John 1675–1735.
.55 **Pope, Alexander** 1688–1744. See also 82..53.
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.6 Later 18th Century, 1745–1800.

.61 Churchill, Charles 1733–1765.
.62 Amory, Thomas 1691–1788.
.63 Whitehead, Paul 1710–1774.
.64 Junius 1679–1772.
.65 Wolcott, John 1738–1819.
(pseud. Peter Pindar.)
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.7 Early 19th Century, 1800–1837.

.71 Gifford, William 1757–1826.
.72 Hood, Thomas 1798–1845.
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.8 Victorian, 1837–

.81 Jerrold, Douglas 1803–1857.
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828 English Miscellany.

Anecdotes, Ana, Epigrams, Quotations, etc., if illustrative of any special subject (e. g., biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For Riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon Literature.

.1 Poetry.
.2 Cædmon.
.3 Beowulf.
.4 Cynewulf.
.5 Homilies and Religious.
.6 Ælfric.
.7 Alfred the Great.
.8 Miscellaneous.
.9 Historical and Biographical.

830 German Literature.

830.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on German Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

831 German Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of German Poetry.

.1 Before the Crusades, –1150.

.11 "Hildebrandslied."
.12 Otfried.
.13 "Ludwigslied."
.14 "Muspilli."

.2 Middle High, 1150–1300.

.21 "Nibelungenlied."
.22 "Gudrun," and minor folk epics.
.23 Heinrich von Veldeke –1200. See also 839.311 2.
.24 Wolfram von Eschenbach.
.25 Gottfried von Strassburg.
.26 Hartmann von Aue 1170–1220.
.27 Walther von der Vogelweide 1170–1230.
.28 Ulrich von Lichtenstein 1199–1276.
.29 Minor Writers.

.3 Period of Decline, 1300–1517.

31 Horneck, Ottokar von.
32 Hadamar von Laber.
33 Hermann von Sachsenheim –1458.
.34 Büheler, Hans. "Die sieben weisen Meister," 1414–
.35 Kaspar von der Röhn. "Das Heldenbuch."
.36 "Theuerdank."
.37 "Die Haimonskinder."
.38 Mastersingers.
.39 Minor Writers.

.4 Reformation. New High, 1517–1625.

.41 Agricola, Martin 1486–1556.
.42 Waldis, Burkard 1490–1558.
.43 Alberus, Erasmus 1500–1553.
.44 **Sachs, Hans** 1494–1576.
.45 Ringwaldt, Bartholomäus 1530–1599.
.46 Rollenhagen Georg 1542–1609.
.47 Andreä, Johann Valentin 1586–1654.

.5 Period of Imitation, 1625–1750.

[The Silesian Schools.]

.51 Opitz von Boberfeld, Martin 1597–1639.
.52 Flemming, Paul 1609–1640.
.53 Logau, Friedrich von 1604–1655.
.54 Gerhardt, Paul 1607–1676.
.55 Hofmannswaldau, Christian Hofmann von 1618–1679.
.56 Zesen, Philipp von 1619–1689.
.57 Brockes, Barthold Heinrich 1680–1747.
.58 Bodmer, Johann Jakob 1698–1783.
.59 Minor Writers.

831.6 Classic Period, 1750–1830.

[For Göthe and Schiller, see 832.6.]

.61 Gellert, Christian Fürchtegott 1715–1769.
.62 **Klopstock, Friedrich Gottlieb** 1724–1803.
.63 Bürger, Gottfried August 17.8–1794.
.64 **Herder, Johann Gottfried von** 1744–1803.
65 Voss, Johann Heinrich 1751–1826.
66 Körner, Karl Theodor 1791–1813.
67 Hölderlin, Johann Christian Friedrich 1770–1843.
63 Platen Hallermünde, August, graf von 1796–1835.
.69 Minor Writers.

.7 Post-Classic Period, 1830–1856.

.71 Arndt, Ernst Moritz 1769–1860.
.72 Eichendorff, Joseph, freiherr von 1788–1857.
.73 Uhland, Johann Ludwig 1787–1862.
.74 Rückert, Friedrich 1789–1866.
.75 **Heine, Heinrich** 1799–1856.
.76 Niembsch von Strehlenau, Nikolaus 1802–1850.
.77 Auersperg, Anton Alexander, graf von [Anastasius Grün.] 1806–1881.
.78 Freiligrath, Ferdinand 1810–1876.
.79 Minor Writers.

.8 Later 19th Century, 1856–

.81 Schefer, Leopold 1784–1862.
.82 Kinkel, Johann Gottfried 1815–1882.
.83 Geibel, Emanuel 1815–1884.
.84 Bodenstedt, Friedrich Martin 1819–1892.
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.89 Minor Writers.

832 German Drama.

.5 Period of Imitation, 1625–1750.

.51 Gryphius, Andreas 1616–1664.
.52 Lohenstein, Daniel Caspar 1635–1683.
.53 Weise, Christian 1642–1708.
.54 Gottsched, Johann Christoph 1700–1776.
.55 Gottsched, Luise Adelgunde Victorie (Culmus) 1713–1762.

.6 Classic Period, 1750–1830.

.61 **Lessing, Gottlob Ephraim** 1729–1781.
.62 **Göthe, Johann Wolfgang von** 1749–1832.
.63 **Schiller, Johann Christoph Friedrich** 1759–1805.
.64 Klinger, Friedrich Maximilian 1753–1831.
.65 Iffland, August Wilhelm 1759–1814.
.66 Kotzebue, August Friedrich Ferdinand von 1761–1819.
.67 Werner, Friedrich Ludwig Zacharias 1768–1823.
.68 Kleist, Heinrich Bernt Wilhelm von 1777–1811.
.69 Minor Writers.

832.7 **Post-Classic Period, 1830–1856.**

.71	Grabbe, Christian Dietrich	1801–1836.
.72	Griepenkerl, Wolfgang Robert	1810–1836.
.73	Grillparzer, Franz	1791–1872.
.74	Birch-Pfeiffer, Charlotte	1800–1868.
.75	Münch-Bellinghausen, Eligius Franz Joseph. [Friedrich Halm.]	1806–1866.
.76	Laube, Heinrich	1806–84
.77	Hebbel, Friedrich	1815–1863.
.78	Gutzkow, Karl Ferdinand	1811–1878.
.79	Minor Writers.	

.8 **Later 19th Century, 1856–**

.81	Benedix, Julius Roderich	1811–1873.
.82	Mosenthal, Salomon Hermann	1821–1877.
.83	Brachvogel, Albert Emil	1824–1878.
.84	Gottschall, Karl Rudolph	1823–
.85	Lindau, Paul	1839–
.89	Minor Writers.	

833 German Fiction.

.5 **Period of Imitation, 1625–1750.**

.51	Buchholtz, Andrew Heinrich	1607–1671.
.52	Grimmelshausen, Hans Jakob Christoffel von	1625–1676.
.53	Anselm, Heinrich	1653–1697.
.54	"Robinsonaden."	
.55	"Der Neue Amadis."	

.6 **Classic Period, 1750–1830.**

.61	Wieland, Christoph Martin	1733–1813.
.62	Richter, Jean Paul Friedrich	1763–1825.
.63	Hardenberg, Friedrich von [Novalis]	1772–1801.
.64	Hoffmann, Ernst Theodor Wilhelm	1776–1822.
.65	La Motte Fouqué, Friedrich H; C;	1777–1843.
.66	Arnim, Ludwig Achim von	1781–1831.
.67	Hauff, Wilhelm	1802–1827.
.68	Chamisso, Adelbert von	1781–1838.
.69	Minor Writers.	

.7 **Post-Classic Period, 1830-1856.**

.71	Zschokke, Johann Heinrich Daniel	1771–1848.
.72	Brentano, Clemens	1778–1842.
.73	Tieck, Ludwig	1773–1853.
74	Postl, Karl [Charles Sealsfield]	1793–1864.
75	Häring, Wilhelm [Wilibald Alexis]	1798–1871.
.76	Hahn-Hahn, Ida, gräfin von	1805–1880.
.77	Gerstäcker, Friedrich	1816–1872.
.78	Hackländer, Friedrich Wilhelm	1816–1877.
.79	Minor Writers.	

.8 **Later 19th Century, 1856–**

.81	Auerbach, Berthold	1815–1882.
.82	Freytag, Gustav	1816–1895.
.83	Scheffel, Joseph Viktor von	1826–1896.
.84	Spielhagen, Friedrich	1829–
.85	Heyse, Paul Johann Ludwig	1830–
.86	Ebers, Georg	1837–1898.
.89	Minor Writers.	

834 German Essays.

Subdivided by periods like 833.

835 German Oratory.

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836 German Letters.

" "

837 German Satire and Humor.

.2 **Middle High. Minnesingers, 1150–1300.**

.21 [Stricker, Der.] "Der Pfaffe Amis" und "Beispiele."

.22 "Salomon und Morolf."

.3 **Period of Decline, 1300–1517.**

.31 "Reineke Vos." See also 839.371.

.32 Brant, Sebastian 1458–1521

.4 **Reformation. New High, 1517–1625.**

.41 Murner, Thomas "Tyll Eulenspiegel." 1475–1537.

.42 Fischart, Johann 1550–1589.

.5 **Period of Imitation, 1625–1750.**

.51	Moscherosch, Johann Michael	1601–1669.
.52	Rachel, Joachim	1618–1669.
.53	Wernicke, Christian	1660–1720.
.54	Liscow, Christian Ludwig	1701–1760.

.6 **Classic Period, 1750–1830.**

.61	Rabener, Gottlieb Wilhelm	1714–1771.
.62	Blumauer, Aloys	1755–1798.

838 German Miscellany.

See 828, note.

839 Minor Teutonic Literatures.

Subdivided by form, Poetry, Drama, etc., like 830.

.1 **Low German.**

.2 **Frisian. Old Saxon.**

.3 **Dutch Literature. Flemish.**

.31 Dutch Poetry.

.311 **Middle Ages.** 1200–1450.

[.1, Jacob van Maerlant 1235–1291; (.2, Heinrije van Veldeke 1200, see 831.23;) .3, Jan I. van Brabant 1250–1294; .4, Melis Stoke 1310; .5, Dirc Potter 1428.]

.312 **Chambers of Rhetoric.** 1450–1600.

[.1, Antonius de Rovere 1482; .2, Anna Bijns 1500; .3, Matthijs de Castelein 1488–1548; .4, Cornelis Everaert 1550; .5, Jan Baptist Houwaert 1533–1599; .6, Dirk Volkerszoon Coornhert 1522–1590; 7, Philipp Marnix 1538–1598; .8, Cornelis van Ghistele 1600; .9, Minor Writers.]

.313 **Period of the Republic.** 1600-1700.

[.1, **Jacob Cats,** 1577–1660; .2, **Joost van der Vondel** 1587–1679; .3, Marie Tesselschade Visscher 1594–1649; .4, **Constantijn Huygens** 1596–1687; .5, Reyer Anslo 1626–1669; .6, Geraert Brandt 1626–1685; .7, Jan Antoniszoon van der Goes (Antonides) 1647–1684; .9, Minor Writers.]

.314 **Poetical Societies.** 1700-1800.

[.1, Lucas Rotgans 1654–1710; .2, Hubert Corneliszoon Poot 1689–1733; .3, Arnold Hoogvliet 1687–1763; .4, Sybrand Feitama 1694–1758; .5, Willem van Haren 1710–1768; .6, Jacob Bellamy 1757–1786; .7, Hieronymus van Alphen 1746–1803; .9, Minor Writers.]

.315 **Modern Period.** 1800–

[.1, Willem Bilderdijk 1756–1831; .2, Jan Frederik Helmers 1767–1813; .3, Cornelis Loots 1765–1834; 4, Hendrik Tollens 1780–1856; .5, Isaac da Costa 1798–1860; .6, Jan Jacob Lodewijk ten Kate 1819–; .9, Minor Writers.]

839.32 Dutch Drama.

.323 **Period of the Republic.** 1600 1700.
[.1, Gerbrand Adriaenszoon Bredero 1585-1618; .2, Corneliszoon Hooft 1581-1647; .3, Samuel Costa 1580-1650; .4, Jan Vos 1620-1667; .5, Guillelmus Ogier 1619-1689; .6, Joachim Oudaan 1628-1692; .9, Minor Writers.]

.324 **Poetical Societies.** 1700-1800
[.1, Pieter Langendijk 1683-1756; .2, Andries Pels; .3, Balthasar Huydecoper 1695-1778; .4, Onno Zwier van Haren 1713-1779; .5, Jan Nomsz 1738-1803; .9, Minor Writers.]

.325 **Modern Period.** 1800-
[.1, Samuel Iperuszoon Wiselius 1769-1845; .2, Helvetius van den Bergh 1795-1865; .3, Hendrik Jan Schimmel 1824-.]

839.33 Dutch Fiction.

.334 **Poetical Societies.** 1700-1800
[.1, Elisabeth Bekker Wolff 1738-1804; .2, Agatha Deken 1741-1804; .3, Rhijnvis Feith 1753-1824.]

.335 **Modern Period.** 1800-
[.1, Adriaan Loosjes 1761-1818; .2, Jacob Vosmaer 1783-1834; .3, Jan Frederik Oltmans 1800-1854; .4, Jacob van Lennep 1802-1868; .5, Hendrik Conscience 1812-1883; .6, Anna Louisa Geertruida Bosboom-Toussaint 1812-.]

839.34 Dutch Essays.

.344 **Poetical Societies.** 1700-1800.
[Justus Van Effen 1684-1735.]

.345 **Modern Period.** 1800-
[.1, Johannes Henricus van der Palm 1763-1840; .2, Reinier Cornelis Bakhuizen van den Brink 1810-1865; .3, Everhardus Johannes Potgieter 1808-1875; .4, Nicolas Beets 1814-; .5, Coenraad Busken Huet 1826-1886.]

839.37 Dutch Satire and Humor.

.371 **Middle Ages.** 1200-1450.
[Reinaert (van den vos Reinaerde) see 837.31.]

.374 **Poetical Societies.** 1700-1800.
[Arend Simonszoon Fokke 1755-1812.]

839.38 Dutch Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.381 **Middle Ages.** 1200-1450.
[Jan van Boendale (Jan de Clerc), *Chronicles*, 1280-1365.]

.384 **Poetical Societies.** 1700-1800.
[Simon Stijl, *History*, 1731-1804; Jan Wagenaar, *History*, 1709-1773.]

.4 Platt Deutsch.

.5 Scandinavian.

.6 Old Norse. Icelandic. Faroese.

839.7 Swedish Literature.

.71 Swedish Poetry.

.711 **Middle Ages.** 1200-1520.
[.1, Nicolaus Hermanni 1391; .2, Bishop Tomas 1443; .3, Ericus Olai 1486; .4, Ballads (Folkvisor).]

.712 **Reformation.** 1520-1640.
[.1, Olaus Petri 1496-1552; .2, Laurentius Petri 1499-1573.]

.713 **Age of Stjernhjelm.** 1640-1740
[.1, Georg Stjernhjelm 1598-1672; .2, Lars Johansson (Lucidor) 1640-1674; .3, Haquin Spegel 1645-1714; .4, Israel Holmström 1660-1708; .5, Gunno Eurelius Dahlstjerna 1661-1709; .6, Johan Runius 1679-1713; .7, Jacob Frese 1691-1729; .8, Samuel von Triewald 1688-1743; .9, Minor Writers.]

.714 **Age of Dalin.** 1740-1780.
[.1, Olof Carelius 1758; .2, Olof von Dalin 1708-1763; .3, Hedvig Charlotta Nordenflycht 1718-1763; .4, Anders Odel 1718-1773; .5, Gustaf Filip Creutz 1720-1785; .6, Gustaf Fredrik Gyllenborg 1731-1808; .7, Olof Bergklint 1733-1805; .9, Minor Writers.]

.715 **Age of Gustavus.** 1780-1800.
[.1, Karl Mikael Bellman 1740-1795; .2, Johan Henrik Kellgren 1751-1795; .3, Bengt Lidner 1757-1793; .4, Johan Gabriel Oxenstjerna 1750-1818; .5, Tomas Thorild 1759-1808; .6, Anna Maria Lenngren 1754-1817; .7, Karl Gustaf af Leopold 1756-1829; .8, Frans Mikael Franzén 1772-1847; .9, Minor Writers.]

.716 **Modern Period.** 1800-
[.1, Per Henrik Ling 1776-1839; .2, Johan Olof Wallin 1779-1839; .3, Esaias Tegnér 1782-1846; .4, Erik Johan Stagnelius 1793-1823; .5, Per Daniel Amadeus Atterbom 1790-1855; .6, Karl Jonas Ludwig Almqvist 1793-1866; .7, Johan Ludwig Runeberg 1804-1877; .8, Karl Vilhelm Böttiger 1807-1879; .9, Minor Writers.]

839.72 Swedish Drama.

.722 **Reformation.** 1520-1640.
[.1, Johan Messenius 1579-1637; .2, Magnus Olai Asteropherus -1647; .3, Andreas Johannis Prytz 1590-1655.]

.723 **Age of Stjernhjelm.** 1640-1740.
[Isak Börk -1701.]

.725 **Age of Gustavus.** 1780-1800.
[.1, Karl Israel Hallman 1732-1800; .2, Gustaf III. (King) 1746-1792; .3, Olof Kexél 1748-1796; .4, Karl Envallsson 1756-1806.]

.726 **Modern Period.** 1800-
[.1, Johan Börjesson 1790-1866; .2, Bernhard von Beskow 1796-1868; .3, August Teodor Blanche 1811-1868; .4, Johan Kristoter Jolin 1818-1884; .5, Frans Hedberg 1828-; .6, Per Johan Edvard Bäckström 1841-.]

839.73 Swedish Fiction.

.734 **Age of Dalin.** 1740-1780.
[.1, Jakob Henrik Mörk 1714-1763; .2, Jakob Vallenberg 1746-1778.]

.736 **Modern Period.** 1800-
[.1, Sofia Margareta von Knorring 1797-1848; .2, Magnus Jakob Crusenstolpe 1795-1865; .3, Fredrika Bremer 1801-1865; .4, Karl Anton Wetterberg (Onkel Adam) 1804-; .5, Emilie Flygare Carlén 1807-1892; .6, Zakris Topelius 1818-1898; .7, Viktor Rydberg 1829-1895; .9, Minor Writers.]

839.74 Swedish Essays.

.746 **Modern Period.** 1800-
[.1, Benjamin Karl Henrik Höijer 1767-1812; .2, Lorenzo Hammarsköld 1785-1827; .3, Bernhard Elis Malmström 1816-1865; .4, Karl Julius Lénström 1811-; .5, Gustaf Håkan Jordan Ljunggren 1825-; .6, Karl Rupert Nyblom 1832-.]

839.77 Satire and Humor.

.776 **Modern Period.** 1800-
[.1, Johan Anders Wadman 1777-1837; .2, Erik Sjöberg (Tycho Mänis) 1794-1828; .3, Kristian Erik Fahlcrantz 1790-1866; .4, Vilhelm August Detlof von Braun 1813-1860; .5, Gunnar Wennerberg 1817-]

839.78 Swedish Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.781 **Middle Ages.** 1200-1520.
[Canon Mattias, *Bible Translation*, -1350; Peder Månsson, *Encyclopedia*, -1534.]

.782 **Reformation.** 1520-1640.
[.1, Peder Andersson Svart, *History*, -1562; .2, Erik Göransson Tegel, *History*, 1580-1636; .3, Ægidius Girs, *History*, 1580-1639; .4, Gustavus Adolphus (King), *History*, 1594-1632.]

.783 **Age of Stjernhjelm.** 1640-1740.
[.1, Olof Rudbeck, *Medicine*, 1630-1702; .2, Urban Hjärne 1641-1724; .3, Johan Peringskjöld, *History*, 1654-1720; .4, Anders Rydelius, *Philosophy*, 1671-1738; .5, Anders Celsius, *Astronomy*, 1701-1744; .6, Emanuel Svedenborg, *Theology*, 1688-1772.]

.784 **Age of Dalin.** 1740-1780.
[.1, Karl Gustaf Tessin, *History*, 1695-1770; .2, Karl von Linné, *Botany*, 1707-1778; .3, Johan Ihre, *Philology*, 1707-1780; .4, Sven Lagerbring, *History*, 1707-1787; .5, Anders Johan von Höpken, *History*, 1712-1789; .6, Olof Celsius, *History*, 1716-1794; .7, Anders af Botin, *History*, 1724-1790; .8, Torbern Olof Bergman, *Chemistry*, 1735-1784; Karl Vilhelm Scheele, *Chemistry*, 1742-1786.]

.786 **Modern Period.** 1800-
[.1, Erik Gustaf Geijer, *History*, 1783-1847; .2, Anders Magnus Strinnholm, *History*, 1786-1862; .3, Anders Fryxell, *History*, 1795-1881; .4, Frederik Ferdinand Carlson, *History*, 1811-1887.]

839.8 Danish and Norwegian Literature.

.81 Danish and Norwegian Poetry.

811 **Middle Ages.** 1100-1500.
[.1, Anders Sunesen; .2, Ballads (Kjæmpeviser).]

.812 **Reformation.** 1500-1560.
[Hans Tavsen 1494-1561.]

.813 **Learned Period.** 1560-1700.
[.1, Anders Arrebo 1587-1637; .2, Anders Bording 1619-1677; .3, Peder Syv 1631-1702; .4, Thomas Kingo 1634-1703; .5, Peder Dass 1647-1708; .6, Dorthe Engelbrektsdatter 1635-1716; .7, Sören Ter Kelsen 1661; .8, Jacob Vorm 1642-1693.]

.814 **Age of Holberg.** 1700-1750.
[.1, Jörgen Sorterup 1662-1723; .2, Töger Reenberg 1656-1742; .3, Kristian Falster 1690-1752; .4, Hans Adolph Brorson 1694-1764; .5, Ambrosius Stub 1705-1758; .6, Kristian Frederik Wadskjær 1712-1779.]

839.815 **Period of Enlightenment.** 1750–1800.

[.1, Kristian Braunmann Tull n 1728–1765; .2, **Johannes Evald** 1743–1781; .3, Johan Herman Vessel 1742–1785; .4, Edvard Storm 1749–1794; .5, Kristen Henriksen Pram 1756–1821; .6, Jens Baggesen 1764–1826; .7, Knud Lyne Rahbek 1670–1830; .8, Malte Konrad Bruun 1775–1826; .9, Minor Writers.]

.816 **Modern Period.** 1800–

[.1, **Adam Gottlob Oehlenschläger** 1779–1850; .2, Berr.hard Severin Ingemann 1783-1862; .3, Nicolai Frederik Severin Grundtvig 1783–1872; .4, Johannes Carsten Hauch 1790–1871; .5, Henrik Wergeland 1808–1845; .6, Ludvig Bödtcher 1793–1874; .7, Frederik Paludan-Müller 1809-1876; .8, Carl Ploug 1813–1894; .9, Minor Writers.]

839.82 Danish and Norwegian Drama.

.823 **Learned Period.** 1560–1700

[.1, Hieronimus Justesen Rauch 1539–1607; .2, Hans Kristensen Sthen 1541–1603; .3, Peder Jensen Hegelund 1542–1614; .4, Hans Thomsen Stege; 5, Jens Lönberg 1663–1700.]

.824 **Age of Holberg.** 1700–1750.

[.1, **Ludvig Holberg** 1684–1754.]

.825 **Period of Enlightenment.** 1750–1800.

[.1, Charlotte Dorothea Biehl 1731–1788; .2, Johan Nordal Bruun 1745–1816; .3, Ole Johan Samsöe 1759–1796; .4, Enevold Falsen 1755–1808; .5, Thomas Thaarup 1749–1821; .6, Kristian Levin Sander 1756–1819; .7, Olaf Kristian Olufsen 1764–1827; .8, Peter Andreas Heiberg 1758–1841; .9, Minor Writers.]

.826 **Modern Period.** 1800–

[.1, Caspar Johannes Boye 1791–1853; .2, Johan Ludvig Heiberg 1791–1860; .3, Henrik Hertz 1798-1870; .4, Thomas **Overskou** 1798–1873; .5, Christian Knud Frederik Molbech 1821–1888; .6, Henrik Ibsen 1828-.]

839.83 Danish and Norwegian Fiction.

.836 **Modern Period.** 1800–

[.1, Thomasine Christine Gyllembourg-Ehrensvärd 1773-1856; .2, Steen Steensen Blicher 1782–1848; .3, Christian Winther 1796–1876; .4, **Hans Christian Andersen** 1805–1875; .5, Meyer Aaron Goldschmidt 1819–1887; .6, Holger Drachmann; .7, **Björnstjerne Björnson** 1832–.]

839.84 Danish and Norwegian Essays.

.845 **Period of Enlightenment.** 1750–1800.

[Rasmus Nyerup 1759–1829.]

.846 **Modern Period.** 1800–

[.1, Niels Mathias Petersen 1781–1862; .2, Sören Aaby Kjérkegaard 1813–1855; .3, Rudolph Keyser 1803–1864; .4, Peter Andreas Munch 1810–1863; .5, Johan Sebastian Cammermeyer Welhaven 1807–1873; .6, Georg Brandes 1842–.]

839.87 Danish and Norwegian Satire and Humor.

.875 **Period of Enlightenment.** 1750–1800.

[.1, Peder Magnus Trojel 1743–1796; .2, Peder Koford Trojel 1754–1784; .3, Thomas Kristoffer Bruun 1750–1834.]

839.88 Danish and Norwegian Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc

.881 **Middle Ages.** 1100–1500.

[.1, Saxo (Longus) Grammaticus, *History*, –1208; .2, Svend Aagesen, *History*.]

.882 **Reformation.** 1500–1560.

[.1, Kristiern Pedersen, "*The Father of Danish Literature*," 1480–1554; .2, Povel Eliesen, *Sermons*, 1480–; .3, Hans Mikkelsen, *Bible Translation*, –1532; .4, Peder Plade (Palladius) 1503–1560; .5, Henrik Smith, *Medicine*, –1563.]

.883 **Learned Period.** 1560–1700.

[**History**: Hans Svaoing 1508–1584; Anders Sörensen Vedel 1542–1616; Peder Klausen 1545–1614; Arild Hvitfeld 1549–1609; Klaus Lyskander 1558–1623; Ole Worm 1588–1654; Peder Resen 1625–1688.]

[**Theology**: Niels Hemmingsen 1513–1600; Holger Rosenkranz 1574–1642; Jesper Brochmand 1585–1652.]

[**Science**: Tyge Brahe, *Astronomy*, 1546–1601; Kaspar Bartholin, *Medicine*, 1585–1629; Thomas Bartholin, *Anatomy*, 1616–1680; Ole Borch, *Medicine*, 1626–1690; Niels Stensen, *Anatomy*, 1638–1686; Ole Römer, *Astronomy*, 1644–1710.]

.884 **Age of Holberg.** 1700–1750.

[.1, Erik Pontoppidan, *History*, 1698–1764; .2, Jacob Langebek, *History*, 1710–1775; .3, Frederik Kristian Eilschov, , 1725–1750; .4, Gerhard Schöning, *History*, 1722–1780; .5, Peder Frederik Suhm, *History*, 1728–1798.]

.9 **Gothic.**

840 French Literature.

840.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on French Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

841 French Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of French Poetry.

.1 Early French, 842–1400.

.11 "**Chanson de Roland.**" "Chanson de Geste."
.12 Wace, Robert.
.13 Marie de France.
.14 Chrestien de Troyes –1191.
.15 Quesnes de Bethune –1228.
.16 Thibaut 4th, comte de Champagne 1201–1253.
.17 Rutebeuf 1230–
.18 "**Roman de la Rose.**"
Guillaume de Loris, 1195–1260. Jean de Meung, 1280–1320.
.19 Minor Poets.

.2 Transition Period, 1400–1500.

.21 Chartier, Alain 1386–1458.
.22 Orléans, Charles duc d' 1391–1465.
.23 Coquillart, Guillaume 1421–1510.
.24 Baude, Henri 1430–1495.
.25 Villon, François 1431–1485.
.26
.27
.28
.29 Minor Poets.

.3 Renaissance, 1500–1600.

.31 Daurat, Jean 1510–1588.
.32 Du Bellay, Joachim 1524–1560.
.33 Belleau, Remy 1528–1577.
.34 Ronsard, Pierre de 1524–1585.
.35 Thiard, Pontus de 1521–1605.
.36 Baïf, Jean Antoine de 1532–1589.
.37 Saluste du Bartas, Guillaume de 1544–1590.
.38 Desportes, Philippe 1546–1606.
.39 Minor Poets.

.4 Classical Period, 1600–1715.

.41 Malherbe, François de 1555–1628.
.42 Maynard, François 1582–1646.
.43 Racan, Honorat de Bueil, marquis de 1589–1670.
.44 Chapelain, Jean 1595–1674.
.45 **La Fontaine, Jean de** 1621–1695.
.46 Deshoulières, Antoinette (du Ligier de la Garde), Madame 1637–1694.
.47 Chaulieu, Guillaume Amfrye de 1639–1720.
.48
.49 Minor Poets.

841.5 **18th Century, 1715–1789.**

.51	Rousseau, Jean Baptiste	1670–1741.	
.52	Racine, Louis	1692–1763.	
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–1784.	
.54	Delille, Jacques	1738–1813.	
.55	Roucher, Jean Antoine	1745–1794.	
.56	Chénier, André Marie de	1762–1794.	
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814.	
.58			
.59	Minor Poets.		

.6 **Revolution and Empire, 1789–1815.**

.61	Lebrun, Ponce Denis Écouchard	1729–1807.	
.62	Fontanes, Louis, marquis de	1757–1821.	
.63	Parseval Grandmaison, François Auguste	1759–1834.	
.64	Luce de Lancival, Jean Charles Julien	1764–1810.	
.65	Désaugiers, Marc Antoine Madeleine	1772–1827.	
.66	Campenon, François Nicolas Vincent	1772–1843.	
.67	Millevoye, Charles Hubert	1782–1816.	
.68			
.69	Minor Poets.		

.7 **Constitutional Monarchy, 1815–1848.**

.71	**Béranger, Pierre Jean de**	1780–1857.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 842.72.
.73	Deschamps, Émile	1791–1871.	
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869.	
.75	Reboul, Jean	1796–1864.	
.76	Vigny, Alfred Victor, comte de	1799–1863.	See 842.75.
.77	Musset, Louis Charles Alfred de	1810–1857.	See 842.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 842.78 and 843.78
.79	Minor Poets.		

.8 **Later 19th Century, 1848–**

.81	Laprade, Pierre Marin Victor Richard de	1812–1883.	
.82	Dupont, Pierre	1821–1870.	
.83	Banville, Theodore Faullain de	1820–1891.	
.84	Sully-Prudhomme, René François Armand	1839–	
.85	Coppée, Francis Édouard Joachim	1842–	See 842.88.
.86	Deroulède, Paul	1846–	
.87			
.88			
.89	Minor Poets.		

842 French Drama.

.1 **Early French, 842–1400.**

.11	Mysteries and Miracles.	
.12	Adam de la Halle	1240–1286.
.13	Bodel, Jean.	
.14		
.15		
.16		
.17		
.18		
.19	Minor Dramatists.	

842.2 **Transition Period, 1400–1500.**

.21	Gresban, Arnoul.	
.22	Michel, Jean	–1493.
.23	Gringoire, Pierre	1480–1544.
.24		
.25		
.26		
.27		
.28		
.29	Minor Dramatists.	

.3 **Renaissance, 1500–1600.**

.31	Le Coq, Thomas.	
.32	Baïf, Lazare de.	
.33	La Perusc, Jean Bastier de	1530–1555.
.34	Jodelle, Étienne	1532–1573.
.35	Grévin, Jacques	1538–1570.
.36	La Taille, Jean de	1540–1608.
.37	Garnier, Robert	1545–1601.
.38	Larivey, Pierre de	1550–1612.
.39	Minor Dramatists.	

.4 **Classical Period, 1600–1715.**

.41	**Corneille, Pierre**	1606–1684.
.42	**Molière, Jean Baptiste Poquelin,** *called*	1622–1673.
.43	Corneille, Thomas	1625–1709.
.44	Boursault, Edme	1638–1701.
.45	**Racine, Jean**	1639–1699.
.46	Brueys, David Augustin de	1640–1723.
.47	Dufresny, Charles Rivière	1648–1724.
.48	Baron, Michel Boyron, *called*	1653–1729.
.49	Minor Dramatists.	

.5 **18th Century, 1715–1789.**

.51	La Motte, Antoine Houdart de	1672–1731.	
.52	Crebillon, Prosper Jolyot de	1674–1762.	
.53	Destouches, Philippe Nericault	1680–1754.	
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 843.52.
.55	Piron, Alexis	1689–1773.	
.56	**Voltaire, François Marie Arouet de**	1694–1778.	See 843.54.
.57	Sédaine, Michel Jean	1719–1797.	
.58	Beaumarchais, Pierre Augustin Caron de	1732–1799.	
.59	Minor Dramatists.		

.6 **Revolution and Empire, 1789–1815.**

.61	Ducis, Jean François	1733–1816.	
.62	Collin-Harleville, Jean François	1735–1806.	
.63	La Harpe, Jean François de	1739–1803.	See 844.61.
.64	Fabre d'Églantine, Philippe François Nazaire	1755–1794.	
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833.	
.66	Chenier, Marie Joseph	1764–1811.	
.67	Picard, Louis Benoît	1769–1828.	
.68	Lemercier, Louis Jean Népomucène	1771–1840.	
.69	Minor Dramatists.		

842.7 **Constitutional Monarchy, 1815–1848.**

.71	Soumet, Alexandre	1788–1845.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 841.72.
.73	Scribe, Augustin Eugène	1791–1861.	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864.	
.75	Vigny, Alfred Victor, comte de	1799–1863.	See 841.76.
.76	Musset, Louis Charles Alfred de	1810–1857.	See 841.77.
.77	**Dumas, Alexandre, the elder**	1806–1870.	See 843.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 843.78
.79	Minor Dramatists.		

.8 **Later 19th Century, 1848–**

.81	Labiche, Eugène Marin	1815-88	
.82	Ponsard, François	1824–1867.	
.83	Augier, Guillaume Victor Émile	1822–89	
.84	Dumas, Alexandre, fils	1824–1895.	
.85	Bornier, Henri de	1825–	
.86	Sardou, Victorien	1831– .	
.87	Pailleron, Édouard	1834–	
.88	Coppée, Francis Édouard Joachim	1842–	See 841.85.
.89	Minor Dramatists.		

843 French Fiction.

.2 **Transition Period, 1400–1500.**

.21	Christine de Pisan	1363–1431.
.22	Jean de Tuim.	
.23	La Sale, Antoine de	1398–1462.
.24	Chastelain, Georges	1403–1475.
.25		
.26		
.27		
.28		
.29	Minor Writers.	

.3 **Renaissance, 1500–1600.**

.31	Marguerite de Navarre	1492–1549.
.32	Desperriers, Bonaventure	1500–1544.
.33	Herberay, Nicolas d'	–1552.
.34	Du Fail, Noël	–1585.
.35	Bouchet, Guillaume	1526–1606.
.36	Beroalde de Verville, François	1558–1612.
.37		
.38		
.39	Minor Writers.	

.4 **Classical Period, 1600–1715.**

.41	Urfé, Honoré d'	1568–1625.
.42	Gomberville, Marin Le Roy de	1600–1647.
.43	La Calprenède, Gauthier de Costes de	1602–1663.
.44	Scudéry, Georges de	1601–1667.
.45	Scudéry, Madeleine de	1607–1701.
.46	Cyrano de Bergerac, Savinien	1620–1655.
.47	Perrault, Charles	1628–1703.
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1634–1693.
.49	Minor Writers.	

843.5 **18th Century, 1715–1789.**

.51	Le Sage, Alain René	1668–1747.	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 842.54.
.53	Prevost d'Exiles, Antoine François	1697–1763.	
.54	**Voltaire, François Marie Arouet de**	1694–1778.	See 842.56.
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–1777.	
.56	**Rousseau, Jean Jacques**	1712–1778.	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806.	
.58	Florian, Jean Pierre Claris de	1755–1794.	
.59	Minor Writers.		

.6 **Revolution and Empire, 1789–1815.**

.61	St. Pierre, Jacques Henri Bernardin de	1737–1814.
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817.
.63	Constant de Rebecque, Henri Benjamin	1767–1830.
.64	Maistre, Xavier de	1763–1852.
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848.
.66		
.67		
.68		
.69	Minor Writers.	

.7 **Constitutional Monarchy, 1815–1848.**

.71	Beyle, Marie Henri [de Stendhal]	1783–1842.	
.72	Nodier, Charles	1790–1844.	
.73	**Balzac, Honoré de**	1799–1850.	
.74	Sue, Marie Joseph, *called* Eugène	1804–1857.	
.75	Souvestre, Émile	1806–1854.	
.76	**Dumas, Alexandre, the elder**	1806–1870.	See 842.77.
.77	Gautier, Theophile	1811–1872.	
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 842.78.
.79	Minor Writers.		

.8 **Later 19th Century, 1848–**

.81	Mérimée, Prosper	1803–1870.
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–1876.
.83	Feuillet, Octave	1822–1890
.84	Flaubert, Gustave	1821–1881.
.85	Erckmann-Chatrian { Erckmann, Émile / Chatrian, Alexandre	1822– / 1826–1890
.86	About, Edmond François Valentin	1828–1885
.87	Cherbuliez, Victor	1832–
.88	Daudet, Alphonse	1840–1897.
.89	Minor Writers.	

844 French Essays.

.3 **Renaissance, 1500–1600.**

.31	**Montaigne, Michel Eyquem de**	1533–1592.

.4 **Classical Period, 1600–1715.**

.41	Du Vair, Guillaume	1556–1621.
.42	Saint-Évremond, Charles de Marguetel de Saint-denis de	1613–1703.

844.5 **18th Century, 1715–1789.**

.51 Fontenelle, Bernard le Bovier de 1657–1757.
.52 Montesquieu, Charles le Secondat, baron de 1689–1755.
.53 Alembert, Jean le Rond d' 1717–1783.

.6 **Revolution and Empire, 1789–1815.**

.61 La Harpe, Jean François de 1739–1803. See 842.63.
.62 Joubert, Joseph 1754–1824.
.63 Courier de Méré, Paul Louis 1772–1825.
.64 Senancour, Étienne Pivert de 1770–1846.

.7 **Constitutional Monarchy, 1815–1848.**

.71 La Mennais, Hugues Félicité Robert de 1782–1854.
.72 Villemain, Abel François 1790–1870.
.73 Planche, Jean Baptiste Gustave 1808–1857.
.74 **Sainte Beuve, Charles Augustin** 1804–1869.
.75 Saint-Marc Girardin 1801–1873.
.76 Janin, Jules Gabriel 1804–1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806–1888.

.8 **Later 19th Century, 1848–**

.81 Quinet, Edgar 1803–1875.
.82 Renan, Ernest 1823–1892.
.83 Taine, Hippolyte Adolphe 1828–1893.

845 French Oratory. Subdivided by periods, like 841.

846 French Letters. Subdivided by periods, like 841.

847 French Satire and Humor.

.1 **Early French, 842–1400.**

.11 Guyot de Provins.
.12 "Roman du Renard." See 837.31 and 839.372.
.13 Deschamps, Eustache 1320–1400.

.3 **Renaissance, 1500–1600.**

.31 Marot, Clement 1495–1544.
.32 **Rabelais, François** 1495–1553.
.33 "La Satyre Ménippée" 1594.
.34 Aubigné, Théodore Agrippa d' 1550–1630.
.35 Regnier, Mathurin 1573–1613.

.4 **Classical Period, 1600–1715.**

.41 Viau, Théophile de 1590–1626.
.42 Saint Amant, Marc Antoine Gérard 1594–1661.
.43 Scarron, Paul 1610–1660.
.44 Benserade, Isaac de 1612–1691.
.45 Furetière, Antoine 1620–1688.
.46 **Boileau Despréaux, Nicolas** 1636–1711.
.47 Regnard, Jean François 1655–1709.

.5 **18th Century, 1715–1789.**

.51 Gresset, Jean Baptiste Louis 1709–1777.
.52 Gilbert, Nicolas Joseph Laurent 1751–1780.

.7 **Constitutional Monarchy, 1815–1848.**

.71 Barthélemy, August Marseille 1796–1867.
.72 Barbier, Henri Auguste 1805–1882.

848 French Miscellany. Subdivided by periods, like 841.

849 Provençal Literature.

.1 **Provençal poetry.**

.11 1st Period. 900–1100.

Poetry in hands of clergy. No folk poetry preserved. Form mainly epic. Language not yet fixed. Country under rule of counts, nominally subject to Emperor, really independent till 1486, then reunited to France.

.111 Epic Poetry.
Boethius.

.112 Lyric Poetry.

.119 Minor poetry. Didactic.

12 Golden Age. 1100–1300.

Poets mainly knights, but after 1250 almost exclusively burghers. Lyric most important.

.121 Romances of Chivalry.
Girart de Rossilho.

.122 Historical Poetry.
Croisade contre les Albigeois.

.123 Romans d'Aventures.
Flamenca.

.124 Lyric Poetry.

.125 Bernart de Ventadorn flourished about 1140–1195.
.126 Born, Bertran de " " 1180–1195.
.127 Arnaut Daniel " " 1180–1200.
.128 Borneill, Guiraut de, " " 1175–1220.
.129 Minor poetry.

Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours.

.13 Aftermath 1300–1500.

Downfall of language and literature owing to lack of content and to political and social causes, especially the Crusade against the Albigenses.

.131 Poets of school of Toulouse.

Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial—a craft Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, Chancellor of "Consistory de la gaya sciensa" established at Toulouse 1324. First prize a golden violet. When in danger of perishing, Consistory revived in 1484 and poetic exercises styled "Jeux Floraux."

.132 La Noble Leyezon.

Religious poetry of Waldenses.

.139 Minor poetry.

.14 Decadence. 1500–

Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852.

.141 Goudouli, Pierre de 1579–1649.
.142 Despourrins, Cyprien 1698–1755.
.143 Jasmin, Jacques 1798–1864.
.144 Roumanille, Joseph 1818–
.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–
.146 Mistral, Frederic 1830–
.149 Minor poetry.

849.9 **Catalan Literature.**

.91 Catalan poetry.

.911 1st Period 1200–1350.

Catalonia before 1137 ruled by French Counts, then united to Aragon. Language is closely allied to Provencal, in which first poets wrote. MSS. scattered; few as yet printed; Literature begins with James 1st (1213-'76) who made Catalan the state language.

For Ramon Muntaner see 849.981.5.

.1, Raimon Lull 1225-1315; .2, Febler 1250; .9, Minor poets.

.912 Second Period. 1350–1450.

Imitation of Neo Provencal, French and Italian, specially of Dante, Petrarch and Boccacio. Some flashes of originality. Fra Rocaberti. Imitation of Dante.

.913 Age of Perfection 1450–

From 16th Century, Catalan literature merged in Spanish, tho some writers stil employ idiom, e. g. "Balaguer."

.1, March, Ausias -1460, greatest of Catalan poets; .2. Fenolla, Bernard; .3, Jacme Roig (satiric); .4, Farrer; .5, Serafi; .6, Pujol; .7, Garcia; .9, Minor Poets.

.93 Catalan Fiction.

.933 Age of Perfection 1450–

Joanet Martorel -1460. Tirant lo Blanch, a chivalric romance.

.98 Miscellany.

981 1st Period. 1200–1350.

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner.

.1, James 1st (The Conqueror) 1213-'76; .2, Desclot, Bernardo; .3, Muntaner, Ramon 1265-1340; .4, Ximenes; .9, Minor authors.

.982 Second period. 1350–1450

Prose resists foreign influences better than poetry. Many philosophical and theological writings beside historical works.

.1, Tomich; .2, Turell; .9. Minor writers.

850 Italian Literature.

850.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on Italian Literature; .5, Periodicals; 6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

851 Italian Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Italian Poetry.

.1 Early Italian; Age of Dante, –1375

To death of Boccaccio, 1375.

.11	Protonotario, Stefano	–1250.
.12	Arezzo, Guittone d'	–1294.
.13	Guinicelli, Guido	–1276.
.14	Cavalcanti, Guido	1260–1300.
.15	**Alighieri, Dante**	1265–1321.
.16	Pistoia, Cino da	1270–1336.
.17	Uberti, Fazio degli	–1369.
.18	**Petrarca, Francesco**	1304–1374.
.19	Minor Poets.	

.2 Period of Classical Learning, 1375–1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

.21	Frezzi, Federigo	–1416.
.22	Bojardo, Matteo	1430–1494.
.23	**Medici, Lorenzo dei (Il Magnifico)**	1448–1492.
.24	**Poliziano, Angelo**	1454–1494. See 852.22.
.25	Berivieni, Girolamo	1453–1542.
.26	Sannazzaro, Jacopo	1458–1530.
.29	Minor Poets.	

.3 Age of Leo the Tenth, 1492–1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542

.31	Bembo, Pietro	1470–1547.
.32	**Ariosto, Lodovico**	1474–1533.
.33	Rucellai, Giovanni	1475–1526.
.34	Molza, Francesco	1483–1544. See 853.33.
.35	Tasso, Bernardo	1493–1569.
.36	Alamanni, Luigi	1495–1556.
.37	Guidiccioni, Giovanni	1500–1541.
.38	Casa, Giovanni della	1503–1556.
.39	Minor Poets.	

4. Later 16th Century, 1542–1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V., 1585.

.41	Costanzo, Angelo di	1507–1591.
.42	Rota. Bernardino	1509–1575.
.43	Tansillo, Luigi	1510–1568.
.44	Magno, Celio	1536–1602.
.45	Guarini, Giovambattista	1537–1612.
.46	**Tasso, Torquato**	1544–1595.
.47	Baldi, Bernardino	1553–1617.
.49	Minor Poets.	

851.5 **Period of Decline, 1585–1748.**

From Pontificate of Sixtus V., 1585–90, to Peace of Aix-la-Chapelle. 1748.

.51	Chiabrera, Gabriello	1552–1637.
.52	Marini, Giovambattista	1569–1625.
.53	Testi, Fulvio	1593–1646.
.54	Filicaja, Vincenzo	1642–1707.
.55	Guidi, Alessandro	1650–1712.
.56	Manfredi, Eustachio	1674–1738.
.57	Frugoni, Carlo Innocenzo	1692–1768.
.58	Algarotti, Francesco	1712–1764.
.59	Minor Poets.	

.6 **Period of Renovation, 1748–1814.**

From Peace of Aix-la-Chapelle, 1748, to Congress of Vienna, 1814.

.61	Paradisi, Agostino	1736–1783.
.62	Mascheroni, Lorenzo	1750–1800.
.63	Pindemonte, Ippolito	1753–1828.
.64	Monti, Vincenzo	1754–1828.
.65	Cassi, Francesco	1778–1846.
.66	Foscolo, Ugo	1779–1827.
.67	Arici, Cesare	1782–1836.
.68	Sestini, Bartolommeo	1792–1822.
.69	Minor Poets.	

·7 **Early 19th Century, 1814–1859.**

From Congress of Vienna, 1814, to War of Independence, 1859.

·71	Berchet, Giovanni	1783–1851.	
·72	Rossetti, Gabriello	1783–1854.	
·73	Manzoni, Alessandro	1785–1873.	See 853.72.
74	Marchetti, Giovanni	1790–1852.	
·75	Leopardi, Giacomo	1798–1837.	
·76	Carrer, Luigi	1801–1850.	
·77	Regaldi, Giuseppe	1809–1883.	
·78	Prati, Giovanni	1815–1884.	
·79	Minor Poets.		

.8 **Later 19th Century, 1859–**

From War of Independence, 1859, to

.81	Aleardi, Aleardo	1810–1878.
.82	Zanella, Giacomo	1820–1888.
.83	Gnoli, Domenico	1836–
.84	Carducci, Giosuè	1836–
.85	Fogazzaro, Antonio	1842–
.86	Rapisardi, Mario	1843–
.87	Guerrini, Olindo	1845–
.88		
.89	Minor Poets.	

852 Italian Drama.

.1 **Early Italian; Age of Dante, –1375.**

.2 **Period of Classical Learning, 1375–1492.**

.21	Belcari, Feo	1410–1484.	
.22	Poliziano, Angelo	1454–1494.	See 651.24.
.29	Minor Dramatists.		

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527.	See 854.31.
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520.	
.33	Trissino, Gian Giorgio	1478–1550.	
.34	Aretino, Pietro	1492–1556.	
.35	Ambra, Francesco d'	–1558.	
.39	Minor Dramatists.		

.4 **Later 16th Century, 1542–1585.**

.41	Speroni, Sperone	1500–1588.	
.42	Giraldi, G. B. Cinzio	1504–1573.	See 853.44.
.43	Cecchi, Giovanni Maria	1517–1587.	
44	Asinari, Federigo	1527–1576.	
.45	Porta, Giovambattista della	1538–1615.	
.49	Minor Dramatists.		

.5 **Period of Decline, 1585–1748.**

.51	Buonarroti, Michelangiolo, Jr.	1564–1646.
.52	Rinuccini, Ottavio	1565–1622.
.53	Andreini, Giovambattista	1578–1650.
.54	Gigli, Girolamo	1660–1722.
.55	Zeno, Apostolo	1669–1750.
.56	Maffei, Scipione	1675–1755.
.57	Trapassi, Pietro (Metastasio)	1698–1782.
.59	Minor Dramatists.	

.6 **Period of Renovation, 1748–1814.**

For Manzoni, see 851.73 and 853.72.

.61	Goldoni, Carlo	1707–1793.
.62	Gozzi, Carlo	1722–1806.
.63	Capacelli Albergati, Francesco	1728–1804.
.64	Alfieri, Vittorio	1749–1803.
.65	Nota, Alberto	1775–1847.
.66	Biondi, Luigi	1776–1839.
.67	Benedetti, Francesco	1785–1821.
.69	Minor Dramatists.	

.7 **Early 19th Century, 1814–1859.**

.71	Niccolini, Giovambattista	1782–1861.
.72	Pellico, Silvio	1788–1854.
.73	Giacometti, Paolo	1816–1881.
.74	Gherardi del Testa, Tommaso	1818–1872.
.75	Ferrari, Paolo	1822–89
.79	Minor Dramatists.	

852.8 **Later 19th Century, 1859–**

.81	Bersezio, Vittorio	1830–	
.82	Cossa, Pietro	1833–1882.	
.83	Carrera, Valentino	1834–	
.84	Marenco, Leopoldo	1836–	
.85	Cavallotti, Felice	1842–	
.86	Torelli, Achille	1844–	
.87			
.88			
.89	Minor Dramatists.		

853 Italian Fiction.

.1 **Early Italian; Age of Dante, –1375.**

.11	"Cento Novelle Antiche" (Gualteruzzi's Collection).		
.12	Barberino, Francesco da	1264–1348.	
.13	Pisa, Guido da	–1350.	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–1375.	
.19	Minor Writers.		

.2 **Period of Classical Learning, 1375–1492.**

.21	Sacchetti, Franco	–1400.	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–1497.	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor Writers.		

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561.	
.33	Molza, Francesco	1483–1544.	See 851.34.
.34	Firenzuola, Agnolo	1493–1548.	
.39	Minor Writers.		

.4 **Later 16th Century, 1542–1585.**

.41	Grazzini, Antonfrancesco (Lasca)	1503–1583.	
.42	Doni, Antonfrancesco	1513–1574.	
.43	Erizzo, Sebastiano	1525–1585.	
.44	Giraldi, G. B. Cinzio	1504–1573.	See 852.42.
.45	Parabosco, Girolamo	–1560.	
.49	Minor Writers.		

.5 **Period of Decline, 1585–1748.**

.6 **Period of Renovation, 1748–1814.**

853.7 **Early 19th Century, 1814–1859.**

.71	Rosini, Giovanni	1776–1855.	
.72	**Manzoni, Alessandro**	1785–1873.	See 851.73.
.73	Grossi, Tommaso	1791–1853.	
.74	Guerrazzi, Francesco Domenico	–1873.	
.75	Bresciani, Antonio	1798–1862.	
.76	Cantù, Cesare	1807–1895.	
.77	Carcano, Giulio	1812–1883.	
.78	Azeglio, Massimo d'	1800–1866.	
.79	Minor Writers.		

.8 **Later 19th Century, 1859–**

.81	Castellazzo, Luigi	1827–	
.82	Barrili, Anton Giulio	1836–	
.83	Capuana, Luigi	1839–	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaello		
.88	Serao, Matilde	1856–	
.89	Minor Writers.		

854 Italian Essays.

.1 **Early Italian; Age of Dante, –1375.**

.11	Cavalca, Fra Domenico	–1342.	
.12	Passavanti, Fra Jacopo	–1357.	

.2 **Period of Classical Learning, 1375–1492.**

.21	Alberti, Leone Battista	1404–1472.	
.22	Palmieri, Matteo	1405–1475.	
.23	Bisticci, Vespasiano da	1421–1498.	
.24	Collenuccio, Pandolfo	–1504.	
.25	Vinci, Leonardo da	1452–1519.	
.29	Minor Essayists.		

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527.	See 852.31.
.32	Nardi, Jacopo	1476–1555.	
.33	Castiglione, Baldassare	1478–1529.	
.34	Guicciardini, Francesco	1482–1540.	
.35	Giannotti, Donato	1494–1573.	
.36	Giambullari, Pier Francesco	1495–1555.	
.37	Gelli, Giovambattista	1498–1563.	
.38	Varchi, Benedetto	1503–1566.	
.39	Minor Essayists.		

854.4 **Later 16th Century, 1542–1585.**

.41	Castelvetro, Ludovico	1505–1571.
.42	Piccolomini, Alessandro	1508–1578.
.43	Borghini, Vincenzo	1515–1580.
.44	Davanzati, Bernardo	1529–1606.
.45	Salviati, Leonardo	1540–1589.
.46	Ammirato, Scipione	1531–1601.
.47	Paruta, Paolo	1540–1598.
.48	Botero, Giovanni	1540–1617
.49	Minor Essayists.	

.5 **Period of Decline, 1585–1748.**

.51	Sarpi, Paolo	1550–1623.
.52	Galilei, Galileo	1564–1642.
.53	Bartoli, Daniele	1608–1685.
.54	Dati, Carlo	1619–1675.
.55	Gravina, Giovanni Vincenzo	1664–1718.
.56	Muratori, Ludovico Antonio	1672–1750.
.57	Giannone, Pietro	1676–1748.
.58	Zanotti, Francesco Maria	1692–1777.
.59	Minor Essayists.	

.6 **Period of Renovation, 1748–1814.**

.61	Bettinelli, Saverio	1718–1808.
.62	Denina, Carlo	1730–1813.
.63	Tiraboschi, Girolamo	1731–1794.
.64	Lanzi, Luigi	1732–1810.
.65	Beccaria, Cesare	1735–1793.
.66	Filangeri, Gaetano	1752–1788
.67	Cesari, Antonio	1760–1828.
.68	Perticari, Giulio	1779–1822.
.69	Minor Essayists.	

.7 **Early 19th Century, 1814–1859.**

.71	Costa, Paolo	1771–1836.
.72	Giordani, Pietro	1774–1848.
.73	Troya, Carlo	1785–1859.
.74	Balbo, Cesare	1789–1853.
.75	Capponi, Gino	1792–1878.
.76	Mamiani della Rovere. Terenzio	1800–1885.
.77	Gioberti, Vincenzo	1801–1853.
.78	Tommaséo, Niccolò	1802–1874.
.79	Minor Essayists.	

.8 **Later 19th Century, 1859–**

.81	Sanctis, Francesco de	1818–
.82	Bonghi, Ruggiero	1827–1895.
.83	Conti, Augusto	1827–
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
.86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–
.89	Minor Essayists.	

855 Italian Oratory.

856 Italian Letters.

857 Italian Satire and Humor.

.1 **Early Italian; Age of Dante, –1375.**

.11	Gemignano, Folgore da San	
.12	Chitarra, Cene dalla	
.13	Angiulieri, Cecco	
.14	Pucci, Antonio	–1377.
.19	Minor Writers.	

.2 **Period of Classical Learning, 1375–1492.**

.21	Burchiello, Domenico	1395–1448.
.22	Pulci, Luigi	1432–1484.
.23	Vinciguerra, Antonio	
.29	Minor Writers.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Folengo, Teofilo (Merlin Cocai)	1491–1544.
.32	Berni, Francesco	1496–1535.
.39	Minor Writers.	

.4 **Later 16th Century, 1542–1585.**

.41	Nelli, Pietro	
.42	Beccuti, Francesco	1509–1553.
.43	Caporali, Cesare	1531–1601.
.49	Minor Writers.	

.5 **Period of Decline, 1585–1748.**

.51	Tassoni, Alessandro	1565–1635.
.52	Bracciolini, Francesco	1566–1645.
.53	Lalli, Giovambattista	1572–1637.
.54	Lippi, Lorenzo	1606–1664.
.55	Rosa, Salvatore	1615–1673.
.56	Menzini, Benedetto	1646–1704.
.57	Sergardi, Ludovico	1660–1726.
.58	Fortiguerri, Niccolò	1674–1735.
.59	Minor Writers.	

.6 **Period of Renovation, 1748–1814.**

.61	Gozzi, Gasparo	1713–1786.
.62	Passeroni, Gian Carlo	1713–1803.
.63	Casti, Giovambattista	1721–1803.
.64	Parini, Giuseppe	1739–1799.
.65	Baretti, Giuseppe	1716–1789.
.66	Elci, Angelo Maria d'	1754–1824.
.67	Pananti, Filippo	1766–1837.
.69	Minor Writers.	

.7 **Early 19th Century, 1814–1859.**

.71	Giusti, Giuseppe	1809–1850.

858 Italian Miscellany.

.8 **Later 19th Century, 1859–**

.81	Gubernatis, Angelo de	1840–
.82	Amicis, Edmondo de	1846–

859 Wallachian Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

.9 Rumansh Literature

Subdivided like 859.

860 Spanish Literature.

860.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

861 Spanish Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Spanish Poetry.

.1 Early Spanish. –1369.

In 711 the Visigothic kingdom, founded in the 5th cent. was overthrown by Arabs; 711–1492 Arabic Period or Age of Reconquest.

Literature began in first half of 12th cent. Earliest poetry, epic; subjects national, themes war and religion (861.11–12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Through him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 "Primitive Monuments."

.12 "Poema de mio Cid."

.13 Berceo, Gonzalo de 1196–1266.

.14 Segura de Astorga, Juan Lorenzo 1250.

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno).

.16 Sem Tob, Rabbí 1350.

.19 Minor Poets.

.2 Age of Imitation. 1369–1516.

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were three distinct schools:

1. Provençal, specially influential at court.
2. Italian (Dante) or Allegorical, introduced by Francisco Imperial, a Genoese. (Mena, 861.22.)
3. Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21).

.21 Lopez de Ayala, Pedro 1332–1407.

.22 Mena, Juan de 1411–1456.

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458.

.24 Manrique, Jorge 1440–1479.

.25 Los "Cancioneros" } Collections of poetry.

.26 Los "Romances" }

.27 Romancero del Cid.

"Romances" popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th cent. Golden Age during reign of Ferdinand and Isabella, a grand reawakening coming with the fall of Granada, 1492.

.29 Minor Poets.

861 .3 Golden Age. 1516–1700.

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera — 16th cent.; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–1667; **Murillo** 1618–1682, etc.

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death.

Great number of poets. Nothing notable in Epic; Lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of two schools follows in which the Italian wins the major influence. Thereafter appear two new schools:

1. Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2. Sicillian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of "bad taste" appear (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. "Bad taste" consisted in artificialities, exaggerations, obscurities, etc.

.31 Vega, Garcilaso de la 1503–1536.

.32 Castillejo, Cristóbal de 1494–1596.

.33 Leon, Luis Ponce de 1528–1591.

Leon is equally important in prose.

.34 Los Argensolas: Lupercio, 1563–1613; Bartolomé Leonardo 1564–1631.

.35 Herrera, Fernando de 1534–1597.

.36 Mendoza, Diego Hurtado de 1503–1575.

.37 Góngora y Argote, Luis de 1561–1627.

.38 Rioja, Francisco de 1600–1659.

.39 Minor Poets.

.4 18th century. 1700–1800.

At death of Carlos 2nd (1700) war of succession resulted in firm establishment of House of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, "bad taste" every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish Academy, 1714), and doctrinal reform in French sense, proclaimed by Luzan (1702–54) in "La Poetica," etc. Thereafter a kind of revival. Three schools formed:

1. Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44).
2. Antique National, protesting against introduction of French taste. Huerta (861.43).
3. Salamanca School, an attempt to reconcile the first two, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). "Prosaism" production of exaggerated opposition to Gongorism or "bad taste" also characterizes period. Influence of French Encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism.

Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty.

.41 Moratin (The elder), Nicolás Fernandez de 1737–1780.

.42 Cadalso, José de 1741–1782.

.43 Huerta, Vicente Antonio García de la 1734–1787.

.44 Samaniego, Félix María de 1745–1801.

.45 Yriarte, Tomás de 1750–1791.

.46 Valdés, Juan Melendez 1754–1817.

.47 Iglesias de la Casa, José 1748–1791.

.48 Cienfuegos, Nicasio Álvarez de 1764–1809.

.49 Minor Poets.

861.5 **19th century.** **1800–**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) quelled. Isabella driven from throne by revolution 1868; 1871–Amadeo (Savoy house), 1873, abdicates and republic is proclaimed; Restoration of monarchy in person of Alfonso 12th in 1875.

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism re-introduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awaking with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53).

.51 Quintana, Manuel José 1772–1857.
.52 Espronceda, José de 1810–1842.
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–
.55 Gil y Zárate, Antonio 1792–1861.
.56 Hartzembusch, Juan Eugenio 1806–1880.
.59 Minor Poets.

862 Spanish Drama.

.2 Age of Imitation. 1369–1516.

Evidences of existence of "mysteries" but no remains.

.21 Enzina, Juan del (?)1468–1534.
.22 Vicente, Gil (?)1450–1536.

.3 Golden Age. 1516–1700.

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 "Lope" had written 1500 dramas), 30,000 dramas composed by beginning of 18th cent. At opening of period Church tried to check development of profane drama placing nearly all in the "Index." Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence.

.31 **Vega Carpio, Lope Felix de** 1562–1635.
.32 Cāstro y Bēlvis Guillen de 1567–1621.
.33 Tellez, Gabriel (Tirso de Molina, pseud. (?)1570–1648.
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639.
.35 **Calderon de la Barca, Pedro** 1600–1681.
.36 Rojas y Zorrilla, Francisco de 1607–
.37 Moreto y Cabaña, Agustin 1618–1669.
.39 Minor Dramatists.

.4 18th Century. 1700–1800.

Complete decadence of drama in last years of old monarchy. Revival in 18th cent., following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National School voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of writers, Comella (862.41)-Period of unrest; old ideas cannot be reëstablished, new cannot be naturalized.

For Moratin the elder, see 861.41 and Huerta, 861.43.

.41 Comella, Luciano Francisco 1716–1779.
.42 Moratin, Leandro Fernandez de 1760–1828.
.43 Cruz, Ramon de la (Light comedies) 1731–1795.
.49 Minor dramatists.

.5 19th Century. 1800–

Zorrilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent "romantic" movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56.

.51 Martinez de la Rosa, Francisco 1789–1862.
.52 Rodriguez Rubí, Tomas 1817–
.53 Breton de los Herreros, Manuel 1796–
.59 Minor dramatists.

863 Spanish Fiction.

.2 Age of Imitation. 1369–1516.

Immense vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605.]

.21 "Books of Chivalry."
.22 **"Amadis de Gaula."**
.23 "Celestina."

.3 Golden Age. 1516–1700.

Real novel replaces old books of chivalry about 1500. "Picaresca," or "rogue" novel characteristic of this period; a result of the state of society following wars of Charles 1st and Phillip 2d; e. g. Mendoza's "Lazarillo de Tormes." For Mendoza, see 861.36.

.31 Montemayor, Jorge de 1520–1561.
.32 **Cervantes Saavedra, Miguel de** 1547–1616.
.39 Minor novelists.

.4 18th Century. 1700–1800.

.5 19th Century. 1800–

For Breton de los Herreros, see 862.53; and Rodriguez Rubi, 862.52.

.51 Larra, Mariano José de [Figaro] 1809–1837.
.52 Romanos, Ramon Mesonero de 1803–
.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1877.
.59 Minor writers.

864 Spanish Essays.

865 Spanish Oratory.

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or "bad taste" conquers here as elsewhere.

.1 Early Spanish. –1369.

.2 Age of Imitation. 1369–1516.

.3 Golden Age. 1516–1700.

For Luis de Leon, see 861.33; and Luis de Granada, 868.32.

.4 18th Century. 1700–1800.

For Jovellanos, see 868.42; and Valdés, 861.46.

.5 19th Century. 1800–

.51 Olozaga, Salustiano de 1803–1873.
.52 Castelar, Emilio 1832–

866 Spanish Letters.

.3 Golden Age. 1516–1700.

Naturalness of old times changed with majestic court and rigid etiquette of Charles 5th. For Santa Teresa, see 868.35.

.31 Avila, Juan de 1502–1569.
.32 Perez, Antonio 1540–1611.
.39 Minor writers.

867 Spanish Satire.

.1 **Early Spanish.** –1369.

Ruiz, Juan (Arcipreste de Hita) 1350.

.2 **Age of Imitation.** 1369–1516.

"Coplas de Mingo Revulgo."

.3 **Golden Age.** 1516–1700.

Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 **18th Century.** 1700–1800.

For Cadalso, see 861.42; and Moratin the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).

.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 **Early Spanish.** –1369.

.11 Alfonso X., El Sábio 1221–1284.

.12 Sancho El Bravo (IV. of Castile) 1258–1295.

.13 Manuel, Juan 1282–1347.

.14 Alfonso XI. 1310–1350.

.19 Minor writers.

.2 **Age of Imitations.** 1369–1516.

General and special histories, books of travel, works called forth by Boccacio's "Convaccio," etc.

.3 **Golden Age.** 1516–1700.

Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic School.

For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3.

.31 Mariana, Juan de, Founder of Spanish History 1536–1623.

.32 Granada, Luis de 1504–1588.

.33 Teresa de Jesús, Santa 1513–1582.

.34 Cruz, San Juan de la 1542–1591.

.35 Rivadeneyra, Pedro de 1527–1611.

.36 Saavedra Fajardo, Diego de 1584–1648.

.39 Minor Writers.

.4 **18th Century.** 1700–1800.

Under Carlos 3d (1759–'88) scientific studies took a fresh start, due largely to Feijóo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764.

.42 Jovellanos, Gaspar Melchor de 1744–1811.

.49 Minor writers.

.5 **19th Century.** 1800–

For Hartzembusch, J. E., see 861.56.

.51 Gayangos, Pascual de 1809–

.52 Rios, José Amador de los 1818–1878.

.53 Milá y Fontanals, Manuel 1818–1884.

.59 Minor writers.

869 Portuguese Literature.

.1, Poetry; .2, Drama; .3. Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

870 Latin Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 **Lucretius Carus, Titus.** See also 187.

.2 **Ovid. (Publius Ovidius Naso.)**

.3 **Hyginus, Caius Julius.**

.4 **Faliscus, Gratius.**

.5 **Manilius, Marcus.**

.6 **Phædrus.**

.7 **Lucilius Junior. "Ætna.**

.8

872 Latin Drama.

.1 **Andronicus, Livius.**

.2 **Nævius, Cnæus.**

.3 **Plautus, Titus Maccius.**

.4 **Ennius.**

.5 **Terence. (Publius Terentius Afer.)**

.6 **Seneca, Lucius Annæus.** See also 878.5.

.7

873 Latin Epic Poetry.

.1 **Virgil. (Publius Virgilius Maro.)**

.2 **Lucanus, Marcus Annæus.**

.3 **Flaccus, Caius Valerius.**

.4 **Silius Italicus, Caius.**

.5 **Statius, Publius Papinius.**

.6

874 Latin Lyric Poetry.

.1 **Catullus, Tibullus and Propertius.**

.2 **Catullus, Valerius.**

.3 **Tibullus, Albius.**

.4 **Propertius, Sextus Aurelius.**

.5 **Horace. (Quintus Horatius Flaccus.)** See also 877.3.

.6 **Calpurnius Siculus.**

.7

875 Latin Oratory.

.1 Cicero, Marcus Tullius. Complete Works.
For Cicero's Letters see 876.1.
.2 Orations.
.3 Rhetorical Works.
.4 Philosophical Works. See also 186.3.
.5 Messala Corvinus, Marcus Valerius.
.6 Quintilian. (Marcus Fabius Quintilianus.)
.7

876 Latin Letters.

.1 Cicero, Marcus Tullius. For his other works see 875.1–875.4.
.2 Pliny. (Caius Plinius Cæcilius Secundus.)
.3 Fronto, Marcus Cornelius.
.4

877 Latin Satire and Humor.

.1 Lucilius, Caius.
.2 Cato, Valerius.
.3 Horace. See 874.5.
.4 Persius Flaccus, Aulus.
.5 Petronius Arbiter, Caius.
.6 Martial. (Marcus Valerius Martialis.)
.7 Juvenal. (Decimus Junius Juvenalis.)

878 Latin Miscellany.

.1 Cæsar, Caius Julius.
.2 Sallust. (Caius Sallustius Crispus.)
.3 Nepos, Cornelius.
.4 Livy. (Titus Livius Patavinus.)
.5 Seneca, Lucius Annæus. See also 872.6 and 188.6.
.6 Tacitus, Caius Cornelius.
.7 Suetonius Tranquillus, Caius.
.8 Curtius Rufus, Quintus.
.9 Minor Writers.

879 Mediæval and Modern Latin.

Subdivided like 820. .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

880 Greek Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on Greek Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Greek Literature.

881 Greek Poetry in General.

See Dramatic, Epic, and Lyric, below.

.1 Theognis.
.2 Aratus.
.3 Lycophron.
.4 Babrius.

882 Greek Dramatic Poetry.

.1 Æschylus.
.2 Sophocles.
.3 Euripides.
.4 Aristophanes.
.5 Epicharmus.
.6 Menander.

883 Greek Epic Poetry.

.1 Homer.
.2 Hesiod.
.3 Apollonius Rhodius.
.4 Oppian.
.5 "Orphic Poems."

884 Greek Lyric Poetry.

.1 Tyrtæus.
.2 Sappho.
.3 Anacreon.
.4 Simonides of Ceos.
.5 Pindar.
.6 Theocritus.
.7 Bion.
.8 Callimachus.
.9 Minor Greek Lyric Poets.

885 Greek Oratory.

.1 Andocides.
.2 Lysias.
.3 Isæus.
.4 Isocrates.
.5 Æschines.
.6 Demosthenes.
.7 Hyperides.
.8 Lycurgus.
.9 Minor Greek Orators.

886 Greek Letters.

.1 Themistocles.
.2 Alciphron.
.3 Phalaris.

887 Greek Satire and Humor.

For Comedies of Aristophanes see 882.4.

.1 Archilochus.
.2 Simonides of Samos.
.3 Hipponax.

888 Greek Miscellany.

.1 Herodotus.
.2 Thucydides.
.3 Xenophon.
.4 Plato. See 184.1, Platonic Philosophy.
.5 Aristotle. See 185.1, Aristotelian Philosophy.
Or if preferred the works of Plato and Aristotle may be put in 184.1 and 185.1
.6 Æsop.
.7 Lucian.
.8 Plutarch. See also 186.2.
.9 Minor Writers.

889 Medieval and Modern Greek.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6. Letters; .7, Satire and Humor; .8, Miscellany.

890 Literature of Minor Languages.

Subdivided like 490, Philology of Minor Languages. If wished the .1, Poetry; .2, Drama, etc., numbers can be used after the language number. e. g., Russian Drama is 891.72; Hebrew Poetry 892.41; Bengali Poetry 891.441.

History.

900 History in General.

901–909 all have *History in General* as their subject, but it is treated in these various *forms*. A periodical on English History goes with 942, not 905, which is only for periodicals on History in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

901 Philosophy, Theories, etc. History of Civilization.
902 Compends, Chronologies, Charts, Outlines.
For Chronology as a Science, see 529.
903 Dictionaries, Cyclopedias, etc.
904 Essays, Lectures, Addresses.
905 Periodicals, Historical Magazines.
906 Societies, Transactions, etc.
907 Education, Methods of Teaching, Writing, etc.
See also 371.3.
908 Polygraphy, Collected Works, Extracts, etc.
909 Universal and General Modern Histories.
For General Ancient Histories, see 930.

.1	A. D. 476—1199.	.5	1500—1599.
.2	1200—1299.	.6	1600—1699.
.3	1300—1399.	.7	1700—1799.
.4	1400—1499.	.8	1800—1899.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.
For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.
For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914–919.

.1
.2 Traveler's Manuals, Guidebooks.
.3 Dictionaries, Gazetteers.
.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.
.5 Periodicals.
.6 Societies.
.7 Study and Teaching of Geography. School Map Drawing.
See 372.8, Primary Teaching of Geography.
.8 Collections of Travels, etc.
.9 History of Geography, Travels, Explorations, etc.

911 Historical. Growth and Changes in Political Divisions, etc. Subdivided like 930–999.

912 Maps, Atlases, Plans of Cities, etc. Subdivided like 930–999.

913 Antiquities, Archæology, of Special Countries.

See also 220.93, biblical antiquities; 340.3, legal antiquities; 571, prehistoric archæology; 930, ancient history; 390, special customs. 913 is divided like 930–999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African.

914 Europe.

915 Asia.

916 Africa.

917 North America.

918 South America.

919 Oceanica and Polar Regions.

914–919 is subdivided like 940–999. Whenever these main geographical headings occur they may be subdivided exactly like History. The full list of sub-heads is printed only under 940–999. In assigning numbers to travels, use the history tables, and *insert 1 after the initial 9*, and move the decimal point; e. g. Guide to N. Y. City is 917.471, for N. Y. in history tables is 974.71.

920 Biography.

Including Autobiography, Diaries, Personal Narratives, Eulogies, Biographical Dictionaries, &c. All Biography is here grouped together under the main classes, and subdivided in the same way with the variations indicated below for Philosophy, Theology, and Sociology, i. e., the biography of science is divided like science itself, see 500–599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, &c. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful.

Another plan is to scatter biography with the other books, leaving 920–928 blank, or using them only for general works, cross references, &c. This simply omits the first two figures 92, and the life of a botanist is 580 instead of 925.8, and goes with the botanical books.

Lives which will not go under any head without "forcing" are best put in a single alphabet under the three figures 920 for men and 920.7 for women.

General and Collective by Localities.

Including only collected lives too general to go under any subject heading.

.01 Universal.
.02 Partial Collections not limited to any special country or subject.
.03 Ancient.
.04 Of Europe.
.05 „ Asia.
.06 „ Africa.
.07 „ North America.
.08 „ South America.
.09 „ Oceanica.

Individual and Collective by Subjects.

920.1 Bibliographers.
.2 Librarians.
.3 Encyclopædists.
.4 Publishers. Booksellers.
.5 Journalists.
.6 Academicians.
.7 Women. Collected, and individual lives not clearly going with any subject.
.8 Eccentrics, Cranks, Fools, Insane, &c. See also 132.1, Insanity.
.9 Other special classes not included in 921–928, e. g., Phrenologists, Somnambulists, Mind Readers, Magicians, &c.

921 Of Philosophy.

.1 American
.2 English. Scotch.
.3 German.
.4 French.
.5 Italian.
.6 Spanish.
.7 Slavic.
.8 Scandinavian and Other Modern.
.9 Ancient. Oriental. Patristic. Scholastic. See 180–189.

922 Of Religion. Clergy, Missionaries, Preachers.

922.1–922.88 may be subdivided for nationality like 930–999.

.1 Primitive (Apostles, Fathers, &c.), Oriental, Greek, Russian. See 225.92, New Testament biography.
.2 Roman Catholic. Popes, Cardinals, &c.
.21 Lives of popes.
.3 Anglican and Protestant Episcopal.
.4 Continental Protestant. Lutheran, Huguenot.
.5 Presbyterian and Congregational.
.6 Baptist.
.7 Methodist.
.8 Unitarian, Universalist, and other.
.81 Unitarian. Universalist.
.82 Campbellite.
.83 Adventist.
.84 New church or Swedenborgian.
.85 Catholic apostolic.
.86 Quaker.
.87 Mennonite.
.88 Shaker.
.89 Other minor Christian sects.

922.9 **Non-Christian. Atheists.**
.91 Atheists.
.92
.93
.94 Brahman. Buddhist.
.95 Parsee.
.96 Jews.
.97 Mohammedan.
.98 Mormon.
.99 **Minor non-Christian religions.**

923 Of Sociology.

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g., the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551.

.1 **Chief Rulers. Kings, Queens, Emperors, Presidents.**
.2 **Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c.** For slaves, see 326.92.
.3 **Political Economy. Bankers, Capitalists, Financiers.**
4 **Law. Judiciary Dept., Lawyers, Judges.**
41 Criminals.
.5 **Administration. Army and Navy, Civil Service.**
.6 **Associations and Institutions. Philanthropists, &c.**
.7 **Education. Teachers, School Officers, Educators.**
.8 **Commerce and Communication. R. R. Officials, Merchants, &c.**
.9 **Manners and Customs. Society, Travelers, Discovery.**

924 Of Philology.
925 „ Science.
926 „ Useful Arts.
927 „ Fine Arts.
928 „ Literature.

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g., in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g., a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7.

In adding figures for the subdivisions of Literature (as in 810–899) Historians are put with miscellaneous authors as 8, i. e., Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet.

929 Genealogy and Heraldry.

.1 **Genealogies.**
.2 **Families.**
.3 **Registers of Births, Baptisms, Marriages, Deaths.**
.4 **Names of Persons and Places.**
.5 **Epitaphs.**

929.6 **Heraldry.**

.7 **Peerage, precedence, titles of honor.**
.71 **Orders of knighthood.**
.711 St. John of Jerusalem.
.712 Templars.
.713 Teutonic knights.
.714 Garter.
.715 Golden Fleece.
.716 Holy Ghost.
.717
.718
.719

.72 **Great Britain and Ireland.**
.721 Peerage.
.722 Baronetage.
.723 Knightage.
.724 Dignities, precedence.
.725 Landed gentry.
.726 Visitations. Alphabeted by counties.

.73 Germany
.74 France
.75 Italy
.76 Spain
.77 Russia
.78 Scandinavia
} Divided like 929.72.
.79 Minor countries.
Divided like 949; minor countries outside Europe are put together in [illegible].

.8 **Coats of Arms, Crests.**
9 **Flags.**

930 Ancient History. To A. D. 476.

931 China.

932 Egypt.

933 Judea.

934 India.

935 Medo-Persia.

.1 Chaldæa.
.2 Assyria. Nineven.
.3 Media.
.4 Babylonia.
.5 Persia.
.6 Parthia.
.7 New Persian or Sassanian.
.8 Mesopotamia.
.9 Susiana.

936 Kelts.

937 Rome. Italy.

Period Divisions.

.01	Kings.	753-509	B. C.
.02	Republic.	509- 31	„
.03	Conquest of Italy.	509-264	„
.04	Punic Wars.	264-146	„
.05	Civil Strife.	146- 31	„
.06	Empire.	31 B. C.-476	A. D
.07	Constitutional.	31 „ -284	„
	Augustus—Illyrian Emperors		
.08	Absolute.	284-476	„
.09	Division of Empire.	395-476	„
	Barbarian Conquests and Fall of Western Empire.		

Geographical Divisions.

.1 Liguria.
.2 Gallia Cisalpina.
.3 Venetia. Istria.
.4 Umbria. Picenum. Sabini, etc.
.5 Etruria.
.6 Latium, Rome.
.7 Southern Italy: Campania, Samnium, Apulia. etc.
.8 Sicily, Syracuse.
.9 Sardinia. Corsica.

938 Greece.

Period Divisions.

.01	Mythical Age.	To 776 B. C.
.02	Growth of States.	775-500 „
.03	Persian Wars. Union of Greece.	500-479 „
.04	Athenian Supremacy.	479-431 „
.05	Peloponnesian War.	431-404 „
.06	Spartan and Theban Supremacy.	404-362 „
.07	Macedonian Supremacy.	362-323 „
.08	Roman Conquest of Greece.	323-146 „
.09	Greek Subjection	146 B. C.-323 A. D.

Byzantine Empire is put 949.5.

Geographical Divisions.

.1 Macedonia.
.2 Thessaly. Epirus.
.3 Acarnania. Ætolia. Locris. Doris. Phocis. Ithaca.
.4 Bœotia. Megaris. Eubœa.
.5 Attica.
.6 Peloponnesus.
.7 Corinthia. Achaia.
.8 Elis. Arcadia. Argolis.
.9 Messenia. Laconia. Sparta.

939 Minor Countries.

.1 Grecian Archipelago.
.11, Northern Islands: Thasos, Lemnos, etc.; .12, Lesbos; .13, Chios, etc.; .14, Samos, etc.; .15, Cyclades; .16, Rhodes, etc.; .17, Carpathos; .18, Crete.

.2 Western Asia Minor.
.21, Mysia, Troas; .22, Lydia; .23, Ionia; .24, Caria; .25, Bithynia; .26, Phrygia; .27, Pisidia; .28, Lycia; .29, Pamphylia.

.3 Eastern Asia Minor.
.31, Paphlagonia; .32, Galatia; .33, Pontus; .34, Cappadocia; .35, Cilicia; .36, Commagene; .37, Cyprus.

.4 Syria.
.41, Upper Syria; .42, Cœle Syria; .43, Palmyra; .44, Phenicia, Tyre; .45, Palestine: Hittites, Philistines, etc.; .46 Edom, Moab, Bashan, etc.; .47, Arabia; .48, Arabia Petræa, Sinai.

.5 North Western Asia.
.51, Scythia; .52, Sarmatia Asiatica; .53, Colchis; .54, Iberia; .55, Armenia; .56, Albania.

.6 South Central Asia.
.61, Sogdiana; .62, Hyrcania; .63, Margiana; .64, Bactriana; .65, Ariana.

.7 Minor African Countries.
.71, Mauritania; .72, Numidia; .73, Africa Propria, Carthage; .74, Syrtica Regio; .75, Cyrenaica; .76, Marmarica; .77, Libya, Gætulia; .78, Æthiopia.

8 South Eastern Europe.
.81, Sarmatia Europa; .82, Dacia; .83, Vindelicia; .84, Rhætia; .85, Noricum; .86, Pannonia; .87, Illyria; .88, Mœsia; .89, Thracia.

Modern History.

940 Europe.

From the fall of Western Empire (Rome), A. D. 476.

.1 **Medieval Europe.** 476–1453.
For Byzantine Empire see 949.5.

.2 **Rise of New Nations.** 476–800.

.3 **Age of Feudalism.** 800–1100.
See 321.3.
Charlemagne. 768–814.
Norman Conquests.

.4 **Age of Chivalry.** 1100–1453.
The Crusades. To fall of Eastern Empire (Constantinople). 1453.
For Church History see 270.4–270.5.

.5 **Modern Europe.** 1453——

.6 **The Renaissance Period.** 1453–1517.
Discoveries and Inventions.

.7 **Age of the Reformation.** 1517–1789.
The 30 Years' War. 1618–1648.

.8 **Napoleonic Period.** 1789–1815.

.9 **Current History.** 1815——

941 Scotland.

Period Divisions.

.01	Gaelic Period.	–1097.
.02	English Period.	1097–1314.
	Struggle for National Freedom.	
.03	Independent Kingdom.	1314–1424.
.04	The Jameses.	1424–1557.
.05	Reformation.	1557–1603.
.06	Union of Crowns and Parliaments.	1603–1707.
.07	Hanover.	1707–1837.
.08	Victoria.	1837–
.09		

Geographical Divisions.

.1 **Northern Scotland.**
.11, Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides.

.2 **North Central Scotland.**
.21, Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26, Kincardine.

.3 **South Central Scotland.**
.31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36, Sterling; .37, Dunbarton; .38, Argyll; .39, Bute.

.4 **Southern Scotland.**
.41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45, Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48, Dumfries; .49, Kirkcudbright, Wigton.

941.5 Ireland.

Period Divisions.

.51	Early History.	–1086.
.52	Separate Kingdoms.	1086–1172.
	Conquest by Henry II.	
.53	Plantagenet.	1172–1399.
.54	Lancaster and York.	1399–1485.
.55	Tudors.	1485–1603.
.56	Stuarts.	1603–1691.
	Closing with Treaty of Limerick.	
.57	Hanover.	1691–1801.
	Closing with the Union.	
.58	19th Century.	1801–
.59		

Geographical Divisions.

.6 **Ulster.**
.61, Antrim; .62, Londonderry; .63, Donegal; .64, Tyrone; .65, Down; .66, Armagh; .67, Monaghan; .68, Fermanagh; .69, Cavan.

.7 **Connaught.**
.71, Leitrim; .72, Sligo; .73, Mayo; .74, Galway; .75, Roscommon.

.8 **Leinster.**
.81, Longford, West Meath; .82, Meath, Louth; .83, Dublin; .84, Wicklow; .85, Kildare; .86, King's Co.; .87, Queen's Co.; .88, Carlow, Wexford; .89, Kilkenny.

.9 **Munster.**
.91, Waterford; .92, Tipperary; .93, Clare; .94, Limerick; .95, Cork; .96, Kerry.

942 England.

Period Divisions.

For specially minute work the 6th figure printed for each sovereign may be used; e. g., Henry VII is 942.051.

.01 Anglo-Saxon. B. C. 55–A. D. 1066.
Prehistoric, Roman, British, Danish.

.02 Norman. 1066–1154.
1, William I. 1066–1087; 2, William II. 1087–1100; 3, Henry I. 1100–1135; 4, Stephen 1135–1154.

.03 Plantagenet. 1154–1399.
1, Henry II. 1154–1189; 2, Richard I. 1189–1199; 3, John 1199–1216; 4, Henry III. 1216–1272; 5, Edward I. 1272–1307; 6, Edward II. 1307–1327; 7, Edward III. 1327–1377; 8, Richard II. 1377–1399.

942.04 Lancaster and York. 1400–1485.

1, Henry IV. 1399–1413; 2, Henry V. 1413–1422; 3, Henry VI. 1422–1461; 4, Edward IV. 1461–1483; 5, Edward V. 1483; 6, Richard III. 1483–1485.

.05 Tudor. 1485–1603.

1, Henry VII. 1485–1509; 2, Henry VIII. 1509–1547; 3, Edward VI. 1547–1553; 4, Mary 1553–1558; 5, Elizabeth 1558–1603. See 272.7.

.06 Stuart. 1603–1714.

1, James I. 1603–1625; 2, Charles I. 1625–1649; 3, Commonwealth 1649–1653; 4, Oliver Cromwell 1653–1658; 5, Richard Cromwell 1658–1659; 6, Charles II. 1660–1685; 7, James II. 1685–1688. 8, William III. 1689–1702; 9, Anne 1702–1714.

.07 Hanover. 1714–1837.

1, George I. 1714–1727; 2, George II. 1727–1760; 3, George III. 1760–1820; 4, George IV. 1820–1830; 5, William IV. 1830–1837.

.08 Victoria. 1837–

Geographical Divisions.

.1 Middlesex. London.

.2 Southeastern.

.21, Surrey; .23, Kent; .25, Sussex; .27, Hants; .28, Isle of Wight; .29, Berks.

.3 Southwestern.

.31, Wilts; .33, Dorset; .34, Channel Islands; .35, Devon; .37, Cornwall; .38, Somerset.

.4 West Midland

.41, Gloucester; .43, Monmouth; .44, Hereford; .45, Salop; .46, Stafford; .47, Worcester; .48, Warwick.

.5 North and South Midland.

.51, Derby; .52, Notts; .53, Lincoln; .54, Leicester, Rutland; .55, Northampton; .56, Huntington, Bedford; .57, Oxford, Buckingham; .58, Hertford; .59, Cambridge.

.6 Eastern.

.61, Norfolk; .64, Suffolk; .67, Essex.

.7 Northwestern and Yorkshire.

.71, Cheshire; .72, Lancashire; .74, Yorkshire.

.8 Northern.

.81, Durham; .82, Northumberland; .85, Cumberland; .88, Westmoreland; .89, Isle of Man.

.9 Wales.

.91, Anglesey; .92, Carnarvon, Merioneth; .93, Denbigh, Flint; .94, Montgomery; .95, Cardigan; .96, Radnor, Brecknock; .97, Glamorgan; .98, Carmarthen; .99, Pembroke.

943 Germany and Austria.

Period Divisions.

.01 Formative Period.

Wars with Rome. Charlemagne 800–814; Louis I 814–840; Lothaire I 840–843.

.02 Empire before the Reformation.

1, **Carolingian,** 843–911: Louis II 843–876; Charles II 876–877; Charles III 877–887; Arnulf 887–899; Louis III 900–911.

2, House of Franconia: Conrad I 911–918; House of **Saxony,** 919–1024: Henry I 919–936; Otto I 936–973; Otto II 973–983; Otto III 983–1002; Henry II 1002–1024.

3, House of **Franconia,** 1024–1125: Conrad II 1024–1039; Henry III 1039–1056; Henry IV 1056–1106; Henry V 1106–1125; House of Saxony: Lothaire II 1125–1137.

4, House of **Hohenstaufen,** 1137–1197: Conrad III 1138–1152; Frederick I 1152–1190; Henry VI 1190–1197.

5, House of **Hohenstaufen** and **Interregnum,** 1198–1272: Philip 1198–1208; Otto IV 1208–1212; Frederick II 1212–1250; Conrad IV 1250–1254; William of Holland 1254–1256; Richard of Cornwall 1256–1272.

6, Houses of **Hapsburg, Luxemburg,** etc., 1273–1378: Rodolph I 1273–1291; Adolphus 1291–1298; Albert I 1298–1308; Henry VII 1308–1313; Louis IV 1313–1347; Charles IV 1347–1378.

7, **Interregnum,** 1378–1437: Wenceslaus 1378–1400; Rupert 1400–1410; Sigismund 1410–1437.

8, Albert II 1438–1439; Frederick III 1440–1493.

9, Maximilian I 1493–1519.

.03 Reformation to 1618. 1517–1618.

1, Charles V 1519–1556; 2, Ferdinand I 1556–1564; 3, Maximilian II 1564–1576; 4, Rodolph II 1576–1612; 5, Matthias 1612–1619.

.04 Disintegration. 1618–1705.

1, Thirty Years' War 1618–1648; 2, Ferdinand II 1619–1637; 3, Ferdinand III 1637–1657; 4, Leopold I 1658–1705.

.05 Rise of Prussia. 1705–1789.

1, Joseph I 1705–1711; 2, Charles VI 1711–1740; 3, 1740–1742; 4, Charles VII 1742–1745; 5, Francis I 1745–1765; 6, *Seven Years' War 1756–1763;* 7, Joseph II 1765–1790.

.06 Napoleonic Wars. 1789–1815.

Leopold II 1790–1792; Francis II 1792–1806; Confederation of the Rhine 1806–1815.

.07 Reorganization. 1815–1866.

.08 New German Empire. 1866–

1, North German Confederation 1866–1871; 2, Franco-German War 1870–1871; 3, William I 1871–88; 4, Frederick 1888; William II 1888–

Geographical Divisions of Germany and Austria.

943.1 Prussia and Northern Germany.

943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 Central Germany.

.21, Saxony; .22, **Thuringia;** .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

943.3 **Bavaria.**

.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.

.4 **Southern Germany.**

.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemburg; .48, *Black Forest* and *Danube*; .49, Hohenzollern.

.5 **Northwest Germany.**

.51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; 57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.

.61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.

.7 **Bohemia, etc.**

.71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.

.8 **Poland.** Including the history before the division.

.9 **Hungary, etc.**

.91, Hungary; .92, Transylvania; .93, Slavonia; .94, Croatia, Fiume; .95 Bosnia; .96, Herzegovina.

944 France.

Period Divisions.

.01 Early History. –987.

Ancient Celts –59 B. C.; Roman Dominion 59 B. C.–418 A. D.; Merovingian Dynasty 428–752; Carolingian 752–987.

.02 Capet and Valois. 987–1589.

House of **Capet.**

1, Hugh Capet 987–996; Robert II 996–1031; Henry I 1031–1060.
2, Philip I 1060–1108; Louis VI 1108–1137; Louis VII 1137–1180.
3, Philip II 1180–1223; Louis VIII 1223–1226; Louis IX 1226–1270.
4, Philip III 1270–1285; Philip IV 1285–1314; Louis X 1314–1316; **John** I 1316; Philip V 1316–1322; Charles IV 1322–1328.

House of **Valois.**

5, Philip VI 1328–1350; John II 1350–1364; Charles V 1364–1380.
6, Charles VI 1380–1422; Charles VII 1422–1461.
7, Louis XI, 1461–1483; Charles VIII 1483–1498; Louis XII 1498–1515.

House of **Angoulême.**

8, Francis I 1515–1547; Henry II 1547–1559.
9, Francis II 1559–1560; Charles IX 1560–1574; Henry III 1574–1589.

03 **Bourbon.** 1589–1789

1, Henry IV 1589–1610; 2, Louis XIII 1610–1643; 3, Louis XIV 1643–1715; 4, Louis XV 1715–1774; 5, Louis XVI 1774–1789.

04 Revolution. 1789–1804.

1, National Assembly 1789–1792; 2, First Republic 1792–1799; 3, Convention, 1792–1795; 4, Reign of Terror; May 1793–July 1794; 5, Directory 1795–1799; 6, First Consulate, Napoleon, 1799–1804.

05 First Empire. 1804–1815.

Napoleon I 1804–1814; Louis XVIII 1814–1815; The Hundred Days March 20–June 29, 1815.

944.06 Restoration. 1815–1848.

1, Louis XVIII 1815–1824; 2, Charles X 1824–1830; 3, Louis Philippe 1830–1848.

.07 Second Republic and Second Empire. 1848–1870.

Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848–1852, Napoleon III 1852–1870.

.08 Third Republic. 1870–

Franco-German War, Government of National Defence 1870–1871; National Assembly 1871; Presidency of Thiers 1871–1873; McMahon 1873–1879; Grévy 1879–87, Sadi-Carnot 1887–94; Casimir Périer 1894–95; Faure 1895–99; Loubet 1899–

Geographical Divisions of France.

944.1 **Brittany. Maine. Anjou.**

.11, Finistère; .12, Côtes du Nord; .13, Morbihan; 14, Loire Inférieure; 15, Ille et Vilaine; 16, **Maine:** Mayenne; 17, Sarthe; 18, **Anjou:** Maine et Loire.

.2 **Normandy. Picardy.**

.21, Manche; .22, Calvados; .23, Orne; 24, Eure; 25, Seine Inférieure; 26, **Picardy:** Somme; 27, **Artois:** Pas de Calais; 28, Nord.

.3 **Champagne. Isle de France. Lorraine.**

.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, **Isle de France:** Aisne; .35, Oise; 36, Seine et Oise, Paris; .37, Seine et Marne; .38, **Lorraine:** Meuse, Moselle; 39, Meurthe, Vosges.

.4 **Burgundy. Franche Comte. Savoy.**

.41, Yonne; .42, Côte d'Or; .43, Saône et Loire; .44, Ain; .45, **Franche Comté:** Haute Saône, Belfort; .46, Doubs; .47, Jura; .48, **Savoy:** Savoie; .49, Haute Savoie.

.5 **Orleans, etc. Auvergne.**

.51, Eure et Loir; .52, Loiret; .53, Loir et Cher; 54, **Touraine:** Indre et Loir; .55, **Berry:** Indre, Cher; .56, **Nivernais:** Nièvre; .57, **Bourbonnais:** Allier; .58, **Lyonnais:** Loire, Rhône; .59, **Auvergne:** Puy de Dôme, Cantal.

.6 **Poitou. Limousin.**

.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, **Limousin:** Haute Vienne; .67, Corrèze; .68, **Marche:** Creuse.

.7 **Guienne. Gascony.**

.71, Gironde; .72, Dordogne; .73, Lot; .74, Aveyron; .75, Tarn et Garonne; .76, Lot et Garonne; .77, **Gascony:** Landes, Gers; .78, Hautes Pyrénées; .79, **Bearn:** Basses Pyrénées.

.8 **Languedoc.**

.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, **Foix:** Ariége; .89, Pyrénées Orientales.

.9 **Provence. Dauphiny.**

.91, Bouches du Rhône; .92, Vaucluse; .93, Var; .94, Alpes Maritimes; .95, Basses Alpes; 96, **Dauphiny;** 97, Hautes Alpes; 98, Drôme; 99, Isère.

945 Italy.

Period Divisions.

.01	Gothic and Lombard Kingdoms.	476–774.
.02	Frankish Emperors.	774–961.
.03	German Emperors.	962–1122.
	Hildebrand and Papal Supremacy.	
.04	Age of the Communes.	1100–1300.
	Free Cities. Strifes of Guelphs and Ghibelines.	
.05	Age of the Despots.	1300–1492.
.06	Age of Invasions.	1492–1527.
.07	Spanish-Austrian Ascendancy.	1527–1796.
.08	Struggle for Independence.	1796–1870.
.09	United Italy.	1870–
	Victor Emanuel, Cavour, Garibaldi.	

Geographical Divisions of Italy.

945.1 **Piedmont and Liguria.**

.2 **Lombardy.**

.3 **Venetia.**

.4 **Emilia.**

.5 **Tuscany.**

.6 **Marches, Umbria and Latium.**

.7 **Naples.**

.7, Abruzzo and Molise; .72, Campania; .73, Napoli; .74 Salerno; .75, Apulia; .76, Lecce, Terra di Otranto; .77, Basilicata, Potenza; .78, Calabria; .79, Reggio di Calabria.

.8 **Sicily. Malta.**

.9 **Sardinia and Corsica.**

946 Spain.

Period Divisions.

.01	Early History. Roman Dominion. Gothic Kingdom.	—— 711.
.02	Moorish Kingdom.	711–1479
.03	Ferdinand V and Isabella.	1479–1516
	Discovery.	
	Expulsion of the Moors.	
.04	Charles I and Philip II.	1516–1598.
	Inquisition. War with the Netherlands. Armada. Charles I (V of Germany) 1516–1556; Philip II 1556–1598.	
.05	Philip III.—Charles IV.	1598–1808.
	Degeneration. 1, Philip III 1598–1621; 2, Philip IV 1621–1665; 3, Charles II 1665–1700; 4, House of **Bourbon:** 5, Philip V 1700–1746; 6, Ferdinand VI 1746–1759; 7, Charles III 1759–1788; 8, Charles IV 1788–1808.	
.06	Peninsular War.	1808–1814.
	Joseph Bonaparte.	
.07	Bourbon Restoration.	1814–1868.
	Attempts at Reform.	
	Ferdinand VII 1814–1833; Isabella II. 1833–1868.	
.08	Later 19th Century.	1868 ——
	Revolution of 1868–1870; Amadeus 1870–1873; Republic 1873–1875; Alfonso XII 1875–85; Alfonso XIII 1886–	

Geographical Divisions of Spain.

946.1 **Galicia. Asturias.**

.2 **Leon. Estramadura.**

.3 **Old Castile.**

.4 **New Castile.**

.5 **Aragon.**

.6 **Basque Provinces.**

.7 **Catalonia. Balearic Isles. Valencia. Murcia.**

.8 **Andalusia. Canary Isles.**

.9 **Portugal.**

.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01	Primitive Russia.	—— 862.
.02	Varangian Kingdom.	862–1237.
	Conversion to Christianity.	
.03	Mongolian Invasion.	1237–1462.
	Civil Wars.	
.04	Ivan III—Ivan V.	1462–1689.
	Origin of Serfdom.	
.05	Peter the Great.	1689–1725.
	Wars with Sweden and Turkey.	
.06	Catharine I—Catharine II.	1725–1796.
	Partition of Poland.	
.07	Paul I—Nicholas I.	1796–1855.
	War with Napoleon.	
	Insurrection of Poland.	
	Crimean War. See also 942.08; 944.07; 945.08; 949.6.	
.08	Alexander II—	1855–1881.
	Emancipation of the Serfs.	
	Turko-Russian War.	
	Alexander III—	1881–

Geographical Divisions of Russia.

947.1 **Finland. Lapland.**

.2 **Northern Great Russia.**

Archangel; Vologda; Olonetz; Novgorod.

.3 **Southern Great Russia.**

.4 **Baltic Provinces.**

Courland; Livonia; Esthonia; St. Petersburg.

.5 **Russian Poland.**

.6 **West Russia.**

.7 **Little Russia. South Russia.**

.8 **East Russia.**

.9 **Caucasia.**

948 Norway, Sweden, and Denmark.

Period Divisions.

.01 Legendary Period. —— 800.
.02 Consolidation. Migration. 801–1397.
Introduction of Christianity.
Discovery of Iceland, Greenland, and America.
Conquest of Britain and Normandy.
.03 Union of the three kingdoms. 1397–1523.
Civilization. Foreign relations.
.04 The Reformation. 1523–1648.
Edict of Toleration, 1527.
30 Years' War. Gustavus Adolphus.
.05 Decline. 1648–1792.
Wars, vs. Denmark, Poland, Russia.
Political changes.
.06 Napoleonic Wars. 1792–1818.
Union of Norway and Sweden, 1814.
.07 Charles XIV. (Bernadotte). 1818 ——.
Peace. Internal reform.
.08

Geographical Divisions.

.1 **Norway.**
.2 **Christiania.**
.3 **Christiansand. Bergen.**
.4 **Hamar. Throndhjem. Tromso.**
.5 **Sweden.**
.6 **Gothland.**
.7 **Sveaiand.**
.8 **Norrland.**
.9 **Denmark.**

949 Minor Countries of Europe.

.1 **Iceland. Faroe Islands.**
01, Commonwealth, –1264; 02, Mediævalism, 1264–1551; 03, Absolute Rule, Decay, 1551–1848; 04, Modern Iceland, 1848 ——.

.2 **Netherlands.**
01, Early History, –1477; 02, Austrian Dominion, 1477–1566; 03, Wars for Independence, 1566–1648; 04, Age of Prosperity, 1648–1795; 05, Revolutionary, 1795–1830; 06, 19th Century, 1830 ——.

.3 **Belgium.**
.4 **Switzerland.**
01, Early History, –1300; 02, Struggle for Independence, 1300–1499; 03, Reformation, 1499–1648; 04, Period of Tranquillity, 1648–1789; 05, Period of Revolution, 1789–1815; 06, 19th Century, 1815 ——.

949.5 **Byzantine Empire and Modern Greece.**
01, Greek Revival. 323–716.
Constantine the Great — Theodosius III.
02, Byzantine Prosperity. 716–1057.
Leo III — Michael VI.
03, Byzantine Decline. 1057–1204.
Isaac I — Latin conquest of Constantinople.
04, Greek Survival. 1204–1453.
Constantinople taken by the Turks, 1453.
05, Turkish Power. 1453–1821.
06, Greek Independence. 1821 ——.

.6 **Turkey in Europe.** .61, Constantinople.
.7 **Servia. Bulgaria. Montenegro.**
.8 **Roumania: Wallachia, Moldavia.**
.9 **Islands of Grecian Archipelago.**
Divided like 939.1.

950 Asia.

951 China.
.1, N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa; .3, S. W. China; .4, N. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 Japan.

953 Arabia.
.1, Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman; .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 India.
.1, Bengal, Orissa, Assam, Bhotan; .2, Northwest Provinces, Oudh, Nepal; .3, Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore, Ceylon; .9, Hyderabad.

955 Persia.

956 Turkey in Asia. See also 949.6.
.1, Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh, Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karpoot; .7, Bagdad, Kurdistan; .8, Aleppo; .9, Damascus, Phenicia, Palestine.

957 Siberia.

958 Afghanistan. Turkestan. Baluchistan.
.1, N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W. Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara; .7, Ferghana or Khokan; .8, **Baluchistan.**

959 Farther India.
.1, British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay Peninsula; .6, Cambodia; .7, French Cochin China; .8, Anam; .9, Tonkin.

960 Africa.

961 North Africa.

.1, Tunis; .2, Tripoli; .3, Fezzan.

962 Egypt.

.1, Lower Egypt, Alexandria, Cairo; .2, Middle Egypt; .3, Upper Egypt, Thebes; .4, Nubia; .5, Dongola; .6, Egyptian Soudan, Kartum; .7, Darfur; .8, Kordofan; .9, Sennaar.

963 Abyssinia.

964 Morocco.

965 Algeria.

966 North Central Africa.

.1, Sahara; .2, Soudan; .3, Senegambia; .4, Sierra Leone; .5, Upper Guinea; .6, Liberia; .7, Ashantee; .8, Dahomey; .9, Gold Coast.

967 South Central Africa.

.1, Lower Guinea; .2, Loango, Congo; .3, Angola, Benguela; .4, Interior; .5, Congo Basin; .6, Central Lake Region; .7, Somali; .8, Zanzibar; .9, Mozambique.

968 South Africa.

.1, Sofala; .2, Transvaal; .3, Zululand; .4, Natal; .5, Orange Free State; .6, Kaffraria; .7, Cape Colony; .8, West Coast; .9, Interior.

969 Madagascar. Mauritius.

970 North America.

.1, Indians, Aborigines; .2, Lives of Indians; .3, Special Tribes; .4, Special States; .5, Government Relation and Treatment; .6, Special Subjects, Character, Civilization, Agriculture, etc.

See 371.95, Education; 572.97, Ethnology; 497, Languages.

971 Canada. British America.

.1 British Columbia.

.2 North-West Territory.

.21, ; .22, Athabasca; .23, Alberta; .24, Saskatchewan; .25, Assiniboia; .26, Keewatin; .27, Manitoba; .28, N. E. Territory.

.3 Ontario.

.4 Quebec.

.5 New Brunswick.

.6 Nova Scotia.

.7 Prince Edward Island.

.8 Newfoundland.

.9 Labrador.

972 Mexico. Central America.

Period Divisions.

.01	Ancient Civilization. 1, Toltec; 2, Chichimec; 3, Tarascan; 4, Aztec; 5, Maya.	—— 1516.
.02	Discovery and Spanish Rule.	1516–1810.
.03	Independence.	1810–1822.
.04	First Empire. Iturbide I. Pronunciamientos.	1822–1845.
.05	War with U. S. See also 973.6.	1845–1848.
.06	Constitution of '57. Reform.	1848–1861.
.07	French Intervention.	1861–1867.
.08	Later History.	1867 ——

Geographical Divisions.

.1 Free Zone and Northern States.

Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango.

.2 Lower California and Islands.

.3 Central Pacific States.

Sinaloa, Jalisco, Colima, Michoacan.

.4 Interior States.

Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato, Querétaro, Hidalgo, Puebla, Tlascala, Morelos.

.5 Mexico. Federal District.

.6 Southern Gulf States.

Veracruz, Tabasco, Campeche. Yucatan.

.7 Southern Pacific States.

Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas.

.8 Central America.

.81 Guatemala.
.82 British Honduras. Belize.
.83 Honduras.
.84 San Salvador.
.85 Nicaragua.
.86 Costa Rica.

.9 West Indies.

.91 Cuba.
.92 Jamaica.
.93 Santo Domingo.
.94 Hayti.
.95 Porto Rico.
.96 Bahamas.
.97 Leeward Islands.
.98 Windward Islands, Barbados
.99 Bermudas.

973 United States

SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution	1775—1789
.4	Constitutional	1789—1809
.5	War of 1812	1809—1845
.6	War with Mexico	1845—1861
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901

See 342.73 U. S. constitutional law and history; 328.73 U. S. legislative bodies and annals; 329 Political parties

.1 Discovery —1607

From earliest times to settlement of Jamestown

See 970.1-6 American indians; 913.7 American antiquities; 571.91 Mounds and mound builders; 571.85 Pueblos

.11 Pre-Columbian

For pre-Columbian claims of Chinese, Norse, Welsh, etc., see .12 to .18 below

Arabs
Jews
Africans
Irish
Poles
Germans. Martin Behaim
Italians

.12 Chinese

.13 Norse
- Gunnbiorn
- Eric the Red
- Leif Ericson
- Bjarni Herjulfson
- Thorwald
- Thorfinn Karlsefne

.14 Welsh
- Prince Madoc

.15 Columbus

.16 Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497-1504
Gaspar and Miguel Cortereal 1500-02. Labrador
Juan Ponce de Leon 1513-21. Florida
Vasco Nuñez de Balbóa 1513. Pacific ocean
Hernando Cortés 1518-40. See also 972.02 History of Mexico
Fernando da Magalhaens 1518-21. Magellan straits
Francisco Pizarro 1524-41. See also 985 History of Peru
Hernando de Soto 1539-42. Mississippi river
Francisco Vasquez de Coronado 1540-42. New Mexico, Arizona Colorado

.17 English
- John and Sebastian Cabot 1497-1530
- Sir John Hawkins 1562-69
- Sir Francis Drake 1570-80
- Sir Martin Frobisher 1576-78
- Sir Humphrey Gilbert 1578-83
- Sir Walter Ralegh 1578-1602
- John Davis 1585-87
- Bartholomew Gosnold 1602-07

973.18 French
- Giovanni da Verrazano 1524
- Jacques Cartier 1534-44. Canada
- Jean Ribault 1562-65. Florida
- René de Laudonnière 1564-66. Florida
- Samuel de Champlain 1603-35. See also 971 History of Canada

19 Other nations

.2 Colonial 1607-1775

See also histories of separate colonies

.21 Virginia settlement 1607-20

Settlement of Jamestown 13 May 1607. See 975.5 Virginia history
Hudson's voyage 1609. See also 974.7 N. Y. history

James 1 1603-25

.22 New England settlement 1620-43

Settlement of Plymouth 21 Dec. 1620. See 974.4 Mass. history
Pequot war 1636-37. Connecticut

Charles 1 1625-49

.23 New England confederacy 1643-64

'United colonies of New England' 19 May 1643

Commonwealth 1649-53
Oliver Cromwell 1653-58
Richard Cromwell 1658-59

.24 Conquest of New Netherlands 1664-89

King Philip's war 1675-76. Massachusetts
War with eastern indians 1675-78. Maine
Sir Edmund Andros, governor of New England 1686-89

Charles 2 1660-85
James 2 1685-88

.25 Early French wars 1689-1732

Witchcraft in New England. See 133.4
King William's war 1689-97
Sometimes called in Europe War of the Palatinate
Queen Anne's war 1702-13
Known in Europe as War of the Spanish succession

William 3 1689-1702
Anne 1702-14
George 1 1714-27

.26 Extension of English rule 1732-63

Settlement of Georgia 1732. See 975.8 Georgia history
King George's war 1744-48
Known in Europe as War of the Austrian succession
Albany convention assembled 19 June 1754
French and indian war 1755-63
Known in Europe as Seven years war
Braddock's defeat 9 July 1755
Crown Point and Ticonderoga 1758-59
Capture of Louisburg 27 July 1758
Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe
Peace of Paris 10 Feb. 1763

George 2 1727-60

.27 Last years of the colonies 1763-75

See also specially 973.311 Causes of the revolution
Conspiracy of Pontiac 1763-64
Bouquet's expedition 1763-64
Lord Dunmore's war Ap.-Oct. 1774. Virginia

George 3 1760-1820

SUMMARY OF 973.3

.31 Political history
.32 Diplomatic history
33 Special campaigns and battles
.34 General military history
.35 Naval history
.36 Celebrations
.37 Prisons, hospitals
.38 Personal narratives
.39 Illustrative material

.31 Political history; causes, results
For financial history see 336.73

.311 Causes 1775
1 Stamp act 1765
2 Navigation acts; mercantile policy
Burning of the Gaspé 17 June 1772
3 Boston massacre 5 Mar. 1770
4 Taxation and representation
5 Tax on tea 1767. Boston tea party 16 Dec. 1773
6 Boston port bill 1774

.312 Political history 1775-83
Continental congress. See 328.73 U. S. legislative bodies

.313 Declaration of independence 4 July 1776. See also 973.361
Mecklenburg declaration 20 May 1775

.314 Loyalists, tories. See also 973.381 Treason and traitors

.315 Relations of special classes to the Revolution.
Clergy and churches
Lawyers
College graduates

.316

.317 Treaty of peace 1783
Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783-89
Shay's rebellion 1786-87. Massachusetts
Cession of western territory to United States

.319

.32 Diplomatic history; relations with other nations
Divided like 940; e. g. 973.324 Relations with France; 973.326 Relations with Spain

.33 Special campaigns and battles

.331 Campaigns of 1775
1 Lexington and Concord 19 Ap. See also 973.362
2 Bunker Hill 17 June. See also 973.366
3 Siege of Boston June 1775-Mar. 1776
4 Ticonderoga 10 May
Crown Point 12 May
5 Canadian expeditions
Montgomery
6 Arnold
7
8 Events in the south

.332 Campaigns of 1776
1 Campaign for the Hudson
2 Battle of Long Island 27 Aug
3 British occupation of New York
4 American retreat Sep-Nov. 1776
Harlem Heights 16 Sep.
White Plains 28 Oct.
Fort Washington 16 Nov
5 Washington in the Jerseys Dec. 1776-Jan. 1777
6 Trenton 26 Dec.
Princeton 3 Jan. 1777
7
8 Events in the south
North Carolina
Fort Moultrie, Sullivan's island 28 June

.333 Campaigns of 1777
1 Events in Connecticut and Rhode island
2 Burgoyne's campaign
Ticonderoga evacuated 6 July
Hubbardton, Vt. 7 July
Bennington, Vt. 16 Aug.
3 Freeman's farm or Bemis Heights or Stillwater 19 Sep.
Bemis Heights or Saratoga 7 Oct.
Burgoyne's surrender 17 Oct.
4 Fort Stanwix or Fort Schuyler or Oriskany 2-22 Aug
5 Clinton's advance up the Hudson
Forts Clinton and Montgomery 6 Oct.
6 Howe's campaign
Brandywine 11 Sep.
Paoli 20 Sep.
7 Philadelphia taken by British 27 Sep.
Germantown 4 Oct.
Forts on the Delaware
Red Bank, or Fort Mercer 22 Oct.
Mud Island, or Fort Mifflin 10-16 Nov.
8 Events in south. Including Kentucky

.334 Campaigns of 1778
1 Washington at Valley Forge 1777-78
2 Events in middle states
Battle of Monmouth 28 June
3 Evacuation of Philadelphia June
4 Indian depredations. See also 973.843
Wyoming 1-4 July
5 Mohawk valley
Cherry valley 11 Nov.
Brant. See also 970.2 Indian biography
6 Rhode Island campaign, August. See also 973.354 Naval history
7 Events in the south
Capture of Savannah 29 Dec.
8 Events in northwest 1778-79
Clark's expedition
Vincennes, Ind. 2 Jan. and 20 Feb. 1779

973 335 Campaigns of 1779
1 Events in New England
Tryon in Connecticut July
2 Penobscot expedition Aug. and Sep.
3 Events in middle states
Minisink 19 July
4 Wayne at Stony Point 16 July
5 Paulus Hook 19 Aug.
6 Sullivan's expedition July–Sep.
7 Events in the south
Briar creek 3 Mar.
Siege of Savannah 23 Sep. and 18 Oct.
8 Events in northwest. See 973.3348
.336 Campaign of 1780
1 Southern campaigns
Waxhaws, N. C. 29 May
Ramsour Mills, N. C. 20 June
Leslie's expedition into Virginia Oct.
2 Siege of Charleston Mar.–May
3 Camden, S. C. 16 Aug.
4 Kings mountain, S. C. 7 Oct.
5 Events in middle states
Springfield, N. J. 23 June
Bull's Ferry, N. Y. 21 July
6 Northern invasion
.337 Campaigns of 1781
1 Southern campaigns
2 Events in Carolinas Jan.–Ap.
Cowpens, S. C. 17 Jan.
Guilford, N C. 15 Mar.
Hobkirks hill, S. C. 25 Ap.
3 Events in Carolinas May–Dec.
Fort Ninety-Six, S. C. May–June
Eutaw Springs, S. C. 8 Sep.
4 British in Virginia
5 Siege of Yorktown Sep.–Oct.
Surrender of Cornwallis 19 Oct.
6 Events in the north
7 Arnold in Connecticut Sep.
.338 Campaigns of 1782
.339 Events of 1783
British evacuation of New York 25 Nov. See also 973.363

973.34 **General military history**
.341 English side
.342 Mercenaries; Hessians
.343 Indians
.344 American side
Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of revolutionary soldiers.
1
2 New Hampshire
3 Vermont. Not then a state, admitted 1791
4 Massachusetts
5 Rhode Island
6 Connecticut
7 New York
8 Pennsylvania
9 New Jersey
.345 Southern states
1 Delaware
2 Maryland
5 Virginia
6 North Carolina
7 South Carolina
8 Georgia
.346 American auxiliaries
.347 French
.348
.349 Special topics
Conway cabal 1777–78
Mutiny of Pennsylvania line Jan. 1781
Newburg addresses 1782–83
.35 **Naval history**
.351 Events of 1775
Capture of the Margaretta June 12
.352 Events of 1776
Escape of British sloop of war Glasgow 6 Ap.
Battle of Lake Champlain 11–13 Oct.
Gen. Benedict Arnold
.353 Events of 1777
Lexington and Alert 20 Sep.
.354 Events of 1778
French fleet at Newport
.355 Events of 1779
Bon Homme Richard and the Serapis 23 Sep.
.356 Events of 1780
Trumbull and Watt 2 June
.357 Events of 1781
Alliance and British brigs Atalanta and Trepassey 28 May
.358 Privateers

973 36 **Celebrations, anniversaries, commemorations**

These should usually be clast with the special event commemorated, but some anniversaries are of such general character as to be better clast here. For Patriotic societies of the revolution see 369.13

.361 Fourth of July. See also 973.313

.362 19th of April. See also 973.3311

.363 Evacuation day, New York. See also 973.339

.364

.365 Monuments, memorials. See also 718

.366 Bunker Hill monument. See also 973.3312

.367 Washington's various headquarters

Newburg, N. Y.

Morristown, N. J.

.37 **Prisons, hospitals, etc.**

371 English prisons

1 Jersey prison ship

2 Sugar house prison

.372 American prisons

.373 Exchange of prisoners

.374

.375 Medical dep't; surgeons, nurses, etc.

.376 Hospitals

.377

.378

.379

.38 **Personal narratives, vindications, secret-service**

.381 Treason and traitors. See also 973.314 Loyalists, tories

.382 Benedict Arnold

.383 Charles Lee

.384

.385 Secret-service, spies

American side. Nathan Hale

.386 British side. Major John André

.39 **Illustrative material**

These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here.

.391 Poetry

.392 Drama

.393 Fiction

394 Addresses

.395 Sermons

.396 Humor

.397 Pictures

Paintings, drawings, caricatures. engravings, photographs, sculpture

.398 Music

.399 Maps

973.4 Constitutional period 1789–1809

See 342.73 U. S. constitution; 329.1 Federal party 1789–18; 329.2 Anti-federal party 1789–92

.41 **George Washington** 30 Ap. 1789—4 Mar. 1797

Born 22 Feb. 1732; died 14 Dec. 1799

Sworn into office 30 Ap. 1789

National bank established 25 Feb. 1791. See 332.11

Vermont admitted, 14th state, 4 Mar. 1791. See 974.3

Kentucky admitted, 15th state, 1 June 1792. See 976.9

.42 Indian wars

Harmar's expedition 1790

St Clair's expedition 1791

.43 Washington's second term 4 Mar. 1793–4 Mar. 1797

Neutrality proclamation 22 Ap. 1793. See also 341.3

Whisky insurrection July–Nov. 1794

Wayne's expedition Oct. Nov. 1794, and treaty 3 Aug. 1795

Jay's treaty 28 Oct. 1795. See also 341.2

Treaty with Spain 27 Oct. 1795. See also 341.2

Tennessee admitted, 16th state, 1 June 1796. See 976.8

.44 **John Adams** 4 Mar. 1797—4 Mar. 1801

Born 31 Oct. 1735; died 4 July 1826

Alien act 25 June 1798. See 341.5

Sedition act 14 July 1798. See 323

Removal of capitol to Washington

.45 Troubles with France

Naval battles; Constellation and L'Insurgent 9 Feb. 1800

.46 **Thomas Jefferson** 4 Mar. 1801—4 Mar. 1809

Born 2 Ap. 1743; died 4 July 1826

Ohio admitted, 17th state, 19 Feb. 1803. See 977.1

Purchase of Louisiana 2 May 1803

.47 Wars with Barbary states

.48 Jefferson's second term 4 Mar. 1805–4 Mar. 1809

Aaron Burr's conspiracy 1806

See also 923.27 lives of Burr; and 343.1 Trials

Embargo act 22 Dec. 1807

.5 War of 1812 1809–45

.51 **James Madison** 4 Mar. 1809—4 Mar. 1817

Born 16 Mar. 1751; died 28 June 1836

Engagement between ships President and Little Belt 16 May 1811

Defeat of indians by Gen. Harrison at Tippecanoe 7 Nov. 1811

Louisiana admitted, 18th state, 30 Ap. 1812. See 976.3

Indiana admitted, 19th state, 11 Dec. 1816. See 977.2

973.52 War of 1812
War declared 18 June 1812. Treaty of peace 24 Dec. 1814
.521 Political history; causes, results
Hartford convention
.522 Diplomatic history
.523 Special campaigns and battles
1 Campaign in northwest
Includes all west of New York
Surrender of Detroit 16 Aug. 1812
2 Events in northwest 1813–14
3 Campaign in New York, New England and Canada
Battle of Queenstown 13 Oct. 1812
4 Events in New York and New England 1813
Capture of Fort Niagara 19 Dec.
5 Events in Canada 1813
Capture of Fort George 27 May
Battle of Thames 5 Oct.
6 Events in New York and New England 1814
Bombardment of Stonington, Conn. 9–12 Aug.
7 Events in Canada 1814
Capture of Fort Erie 3 July
Battle of Chippewa 5 July
Battle of Lundy's Lane 25 July
8 Campaign in the south
Battle of Bladensburg 24 Aug. 1814
Burning of Washington 24 Aug. 1814
Bombardment of Fort McHenry 13 Sep. 1814
9 Events in Louisiana
Battle of New Orleans 22 Dec. 1814–8 Jan. 1815
.524 General military history
1 English side
2 Indian allies
3
4 American side in general
Divided like 974. Under the number for each state use the book numbers A1–A10 for official publications, A2 for lists of soldiers.
5 South Atlantic states
Divided like 975
6 Gulf states
Divided like 976
7 Lake states
Divided like 977

973.525 Naval history
1 Events of 1812
Constitution and Guerrière 19 Aug.
Wasp and Frolic 18 Oct.
United States and Macedonia 25 Oct.
Constitution and Java 29 Dec.
2 Events on inland waters
3 Events of 1813
Hornet and Peacock 24 Feb.
Chesapeake and Shannon 1 June
Pelican and Argus 14 Aug.
Enterprise and Boxer 5 Sep.
4 Events on inland waters
Battle of Lake Erie 10 Sep.
5 Events of 1814
Essex against Phoebe and Cherub 28 Mar.
Peacock and Epervier 29 Ap.
Wasp and Reindeer 28 June
Wasp and Avon 1 Sep.
Wasp and Atlanta 21 Sep.
6 Events on inland waters
Battle on Lake Champlain 11 Sep.
7 Events of 1815
Capture of frigate President 15 Jan.
Capture of Cyane and Levant by the Constitution 20 Feb.
Hornet and Penguin 23 Mar.
8 Privateers
.526 War meetings, celebrations, anniversaries, etc.
See note under 973.30
See 369.14 societies of the war of 1812
.527 Prisons, hospitals, etc.
1 English prisons. Dartmoor
.528 Personal narratives, vindications, secret service
.529 Illustrative material. Divided like 973.39
.53 Algerine war

.54 **James Monroe** **4 Mar. 1817—4 Mar. 1825**
Born 28 Ap. 1758; died 4 July 1831
Mississippi admitted, 20th state, 10 Dec. 1817. See 976.2
Illinois admitted, 21st state, 3 Dec. 1818. See 977.3
Purchase of Florida 25 Feb. 1819
Alabama admitted, 22d state, 14 Dec. 1819. See 976.1
Maine admitted, 23d state, 15 Mar 1820. See 974.1
Missouri compromise. See 326.973 and 973.7113
Missouri admitted, 24th state, 10 Aug. 1821. See 977.8
Monroe doctrine Dec 1823. See 327.73
Tariff act 22 May 1824. See 337
.541 Seminole war 1818

.55 **John Quincy Adams** **4 Mar. 1825—4 Mar. 1829**
Born 11 July 1767; died 23 Feb. 1848
Erie canal completed 1825. See 386
Panama congress 1826. See 341.1
Removal of Creek indians 1825–29. See 970.3
Tariff act 19 May 1828. See 337

973 56 **Andrew Jackson** 4 Mar. 1829—4 Mar. 1837
Born 15 Mar. 1767; died 8 June 18,5
Rotation in office. See 351. 6
United States bank. See 332.11
Whig party. See 329.4
Compromise tariff act 3 Mar. 1833. See 337
Independence of Texas 2 Mar. 1836. See 976.4
Arkansas admitted, 25th state, 15 June 1836. See 976.7
Specie circular 11 July 1836. See 336.73
Michigan admitted, 26th state, 26 Jan. 1837. See 977.4
.561 Nullification. See also 342.73
Webster and Hayne debate 25-27 Jan. 1830
Nullification ordinance, South Carolina 24 Nov. 1832
.562 Black Hawk war 1832
.57 **Martin Van Buren** 4 Mar. 1837—4 Mar. 1841
Born 5 Dec. 1782; died 24 July 1862
Panic of 1837. See 332
Alton riot 7 Nov. 1837. See 326.973
Burning of Caroline 26 Dec. 1837
Northeast boundary, Aroostook war, Feb., Mar. 1839
Amistad case 1839
.571 Second Seminole war 1835-42
.58 **William Henry Harrison** 4 Mar. 1841—4 Ap. 1841
Born 9 Feb. 1773; died 4 Ap. 1841
John Tyler 4 Ap. 1841—4 Mar. 1845
Born 29 Mar. 1790; died 18 Jan. 1862
Dorr's rebellion May-June 1842. See 974.5
Ashburton treaty, northeast boundary
Texas annexation resolution 28 Feb. 1845
Florida admitted, 27th state, 3 Mar. 1845
.6 **War with Mexico** 1845-61
.61 **James Knox Polk** 4 Mar. 1845—4 Mar. 1849
Born 2 Nov. 1795; died 15th June 1849
Texas annexed, 28th state, 29 Dec. 1845. See 976.4
Wilmot proviso adopted by house 8 Aug. 1846 See also 973.7113
Iowa admitted, 29th state, 28 Dec. 1846. See 977.7
Wisconsin admitted, 30th state, 29 May 1848. See 977.5
Free soil party; Buffalo convention Aug. 1848. See 329.6
.611 Northwest boundary; Oregon; treaty with England 12 June 1846
.62 Mexican war. 1845-48.
War declared 13 May 1846; treaty of peace 30 May 1848
.621 Political history; causes, results
Annexation of Texas
Acquisition of California, Nevada, Utah, Arizona, etc.
.622 Diplomatic history
.623 Special campaigns and battles
1 Kearny in New Mexico
2 Fremont in California
3 Taylor's campaign
4 On the Rio Grande
Palo Alto 8 May 1846
Resaca de la Palma 9 May
Matamoras 18 May
5 In Mexico
Monterey 20-25 Sep. 1846
Buena Vista 22-23 Feb. 1847

973.623 6 Scott's campaign
7 Vera Cruz 22-29 Mar. 1847
Cerro Gordo 17-18 Ap.
8 Battles near Mexico
Contreras 19-20 Aug.
San Antonio 20 Aug.
Churubusco 20 Aug.
9 Capture of Mexico
Molino del Rey 8 Sep.
Chapultepec 12-13 Sep.
Mexico 14 Sep.
624 General military history
.625 Naval history
.626 War meetings, celebrations, anniversaries
See note under 973.36; also 369.145 Aztec club of 1847
.627 Prisons, hospitals, etc.
.628 Personal narratives
.629 Illustrative material. See note under 973.39
.63 **Zachary Taylor** 5 Mar. 1849—9 July 1850
Born 24 Sep. 1784; died 9 July 1850
Inaugural ceremony 5 March
Compromise of 1850, Omnibus bill, introduced by Henry Clay 29 Jan. 1850. See 326.973 and 973.7113
.64 **Millard Fillmore** 9 July 1850—4 Mar. 1853
Born 7 Feb. 1800; died 7 Mar. 1874
Clayton-Bulwer treaty 4 July 1850. See 386
California admitted, 31st state, 9 Sep. 1850. See 979.4
Fugitive slave law 18 Sep. 1850. See 326.973
Popular sovereignty, or squatter sovereignty. See 342.73 and 326.973
Filibustering expeditions to Cuba 1849-51. See 972.91
.65

.66 **Franklin Pierce** 4 Mar. 1853—4 Mar. 1857
Born 23 Nov. 1804; died 8 Oct. 1869
Know-nothing party. See 329.5
Republican party. See 329.6
Com. Perry's expedition to Japan 1852-54. See 915.2 and 341.273
Gadsden treaty with Mexico for purchase of southern Arizona and New Mexico 30 June 1854
Kansas-Nebraska bill 30 May 1854. See 326.973, 978.1 and 978.2.
Ostend manifesto 18 Oct. 1854. See 972.91
Walker's filibuster expedition against Nicaragua 1855. See also 972.85
.67

.68 **James Buchanan** 4 Mar. 1857—4 Mar. 1861
Born 23 Ap. 1791; died 1 June 1868
Dred Scott decision 6 Mar. 1857. See 326.973 and 973.7113
Lecompton constitution, Kansas; proslavery 7 Nov. 1857. See 978.1
Minnesota admitted, 32d state, 11 May 1858. See 977.6
Oregon admitted, 33d state, 14 Feb. 1859. See 979.5
John Brown's raid 16-17 Oct. 1859. See 973.7116 and 326.973
Kansas admitted, 34th state, 29 Jan. 1861. See 978.1
.69

973.7 War of secession 4 Mar. 1861—15 Ap. 1865

SUMMARY of 973.7

.71	Political history
.72	Diplomatic history
.73	Special campaigns and battles
.74	General military history
.75	Naval history
.76	Celebrations
.77	Prisons, hospitals
.78	Personal narratives
.79	Illustrative material

Abraham Lincoln 1861–1865

Born 12 Feb. 1809; died 15 Ap. 1865

1st term 4 Mar. 1861—4 Mar. 1865; 2d term 4 Mar. 1865—15 Ap. 1865

.71 **Political history; causes, results**

West Virginia admitted, 35th state, 19 June 1863. See 975.4

Nevada admitted, 36th state, 31 Oct. 1864. See 979.3

.711 Causes

1 Slavery. See also 326

2 Extension of slavery

Annexation of territory

Slavery in the territories

3 Compromises

Missouri compromise 1820. See also 973.54

Wilmot proviso 1846. See also 973.61

Compromise of 1850. See also 973.63

4 Abolition movement

Murder of Elijah P. Lovejoy 7 Nov. 1837

Assault on Charles Sumner by Preston S. Brooks, 22 May 1856

5 Fugitive slaves

Underground railway

Dred Scott case. See also 973.68

6 John Brown's raid. See also 973.68

7 States' rights

8 Tariff See also 337

.712 Efforts to preserve peace

Crittenden compromise introduced 18 Dec. 1860

Peace conference 4–27 Feb. 1861

.713 Secession of southern states

South Carolina 20 Dec. 1860

Mississippi 9 Jan. 1861

Florida 10 Jan.

Alabama 11 Jan.

Georgia 19 Jan.

Louisiana 26 Jan.

Texas 1 Feb.

Confederate states of America formed 4 Feb.

Virginia 17 Ap.

Arkansas 6 May

North Carolina 20 May

Tennessee 8 June

For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate Congress and of state legislatures see subdivisions of 328.

.714 Results of the civil war

Emancipation proclamation 1 Jan. 1863. See 326.8

Freedmen's bureau. See 361

For the present condition of negro, see 325.26

For negro colony in Africa, Liberia, see 325.6; history of Liberia 966.6

.715 Relations of special classes to the civil war

Clergy and churches. Colleges, students and graduates

.716 Southern side

.717 Unionists in the south

.718 Secessionists in the north

.72 **Diplomatic history; relations with other nations**

Divided like 940; e. g. 973.722 Relations with England; 973.727 Russia

.721 Diplomatic history of confederate states

Divided like 940; e. g. 973.7214 Relations of confederate states with France

.73 **Special campaigns and battles**

General arrangement of topics is based on *Official records of the Union and confederate armies*, pub. by the U. S. The indexes of those volumes can be used as a minute subject index for subdivisions of 973.73

.731 Campaign of 1861

1 Operations in Charleston harbor, S. C. 20 Dec. 1860–14 Ap. 1861

Bombardment of Fort Sumter 12-14 Ap.

2 Operations in other southern states (see *Official records*, v. 1)

3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July

Riot at Baltimore, Md. 19 Ap.

Engagement at Big Bethel, or Bethel Church, Va. 10 June

4 Battle of Bull Run, or Manassas, Va. 21 July

5 Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.

6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862

Kentucky, Tennessee 1 July-19 Nov.

North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862

7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862

8 Engagement at Ball's Bluff, Va. 21 Oct.

Action near Edwards Ferry, Va. 22 Oct.

9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862

.732 Campaign of 1862

1 West Florida, southern Alabama, southern Mississippi, Louisiana 1 Sep. 1861–12 May 1862

Capture of New Orleans, La. 18 Ap.-1 May

2 Kentucky, Tennessee, north Alabama, southwest Virginia 19 Nov. 1861–4 Mar. 1862

Capture of Fort Henry, Tenn. 6 Feb.

Siege and capture of Fort Donelson, Tenn. 12-16 Feb.

3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861-10 Ap. 1862

Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.

4 Southeastern Virginia 11 Jan.-17 Mar.

Battle of Merrimac and Monitor. See 973.752

North Carolina 11 Jan.-20 Aug.

Burnside expedition

Battle of Roanoke island, N. C. 8 Feb.

Texas, New Mexico, Arizona 1 Feb.-20 Sep.

5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June

Siege of Corinth, Miss. 29 Ap.-10 June

6 Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Ap.

7 Peninsular campaign, Va. 17 Mar.-2 Sep.

Siege of Yorktown, Va. 5 Ap.-4 May

Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June

Seven-days battles 25 June-1 July

8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.

Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.

Second battle of Bull Run, or Manassas, Va. 30 Aug.

9 Missouri, Arkansas, Kansas, Indian T. Dep't of N. W. 10 Ap.-20 Nov.

973.733 Campaign of 1862 *continued*

1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862–11 June 1863

2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862–14 May 1863

Texas, New Mexico, Arizona 20 Sep. 1862–14 May 1863

3 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June-31 Oct.

4 West Tennessee, northern Mississippi 10 June-20 Jan. 1863

Battle of Corinth, Miss. 3-4 Oct.

5 North Carolina, southeastern Virginia 20 Aug. 1862–3 June 1863

6 Northern Virginia, West Virginia, Maryland, Pennsylvania 3 Sep.-14 Nov.

Battle of South Mountain, Md. 14 Sep.

Battle of Antietam, or Sharpsburg, Md. 16-17 Sep.

7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.-20 Jan. 1863

Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862–3 Jan. 1863

8 Northern Virginia, West Virginia, Maryland, Pennsylvania 15 Nov.-25 Jan. 1863

9 Battle of Fredericksburg, Va. 11-15 Dec.

.734 Campaign of 1863

1 Missouri, Arkansas, Kansas, Indian territory, Dep't of Northwest 20 Nov. 1862–31 Dec. 1863

2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.-10 Aug.

Middle Tennessee, or Tullahoma campaign 23 June-7 July

Morgan's Ohio raid 2-26 July

3 Mississippi, west Tennessee 20 Jan.-10 Aug.

4 Siege of Vicksburg, Miss. 19 May-4 July

5 Northern Virginia, West Virginia, Maryland, Pennsylvania 26 Jan.-3 June

6 Chancellorsville, Va. campaign 27 Ap.-6 May

7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May-31 Dec.

Siege of Port Hudson, La. 21 May-8 July

8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania, Dep't of East 3 June-3 Aug.

9 Battle of Gettysburg, Pa. 1-3 July

973.735 Campaign of 1863, *continued*

1 South Carolina, Georgia, middle and east Florida 12 June-31 Dec.

Operations on Morris island, S. C. 10 July-7 Sep.

Occupation of Battery Wagner, S. C. 6-7 Sep.

Bombardment of Fort Sumter, S. C. 17 Aug.-31 Dec.

Bombardment of Charleston, S. C. 21 Aug.-31 Dec.

3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.-31 Dec.

Bristoe, Va. campaign 9-22 Oct.

Mine Run, Va. campaign 26 Nov.-2 Dec.

4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.-19 Oct.

5 Chickamauga, Ga. campaign 16 Aug.-22 Sep.

Battle of Chickamauga, Ga. 19-20 Sep.

6 East Tennessee campaign 16 Aug.-19 Oct.

7 Keutucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 20 Oct.-31 Dec.

8 Knoxville, Tenn. campaign 4 Nov.-23 Dec.

Siege of Knoxville, Tenn. 17 Nov.-4 Dec.

9 Chattanooga-Ringgold campaign 23-27 Nov.

Battle of Lookout mountain, Tenn. 24 Nov.

Battle of Missionary ridge, Tenn. 25 Nov.

.736 Campaign of 1864

1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 1 Jan.-30 Ap.

Meridian, Miss. expedition 3 Feb.-6 Mar.

Forrest's expedition into west Tennessee and Kentucky 16 Mar.-14 Ap.

Capture of Fort Pillow, Tenn. 12 Ap.

2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania 1 Jan.-30 Ap.

Expedition against New Berne, N. C. 28 Jan.-10 Feb.

Engagement at Morton's Ford, Va. 6-7 Feb.

Kilpatrick's expedition against Richmond, Va. 28 Feb.-4 Mar.

3 Louisiana, trans-Mississippi 1 Jan.-30 June

Red river, La. campaign 10 Mar.-22 May

Camden, Ark. expedition 23 Mar.-3 May

4 South Carolina, Florida, Georgia coast 1 Jan.-13 Nov

Charleston, S. C. harbor and vicinity

Florida expedition 5-22 Feb.

Engagement at Olustee or Ocean Pond, Fla. 20 Feb.

5 Southeastern Virginia, North Carolina 1 May-12 June

Engagement at Proctor's Creek and Drewry's Bluff or Fort Darling, Va. 12-16 May

Operations on the Bermuda Hundred, Va. front 17 May-2 June

Engagement at Petersburg, Va. 9 June

6 Battle of the Wilderness, Va. 5-7 May

7 Operations about Spottsylvania Court-House, Va. 8-21 May

8 Operations at and about Cold Harbor, Va. 31 May-12 June

9 Northern Virginia, West Virginia, Maryland, Pennsylvania 1 May-3 Aug.

Engagement at New Market, Va. 15 May

Lynchburg, Va. campaign 26 May-29 June

Battle of the Monocacy, Md. 9 July

Action near Fort Stevens, D. C. 12 July

973.737 Campaign of 1864, *continued*

1 Northern Georgia 1 May-8 Sep.
Atlanta, Ga. campaign
Battle of Atlanta, Ga. 22 July

2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 May-13 Nov.
Engagement at Harrisburg, near Tupelo, Miss. 14-15 July
Operations in Mobile bay, Ala. 2-23 Aug.
Engagement at Allatoona, Ga. 5 Oct.

3 Southeastern Virginia, North Carolina 13 June-31 July
Richmond, Va. campaign
Assaults on the Petersburg lines 15-18 June
Explosion of the mine and assault on the crater 30 July

4 Louisiana, trans-Mississippi 1 July-31 Dec.
Price's Missouri expedition 29 Aug.-2 Dec.

5 Southeastern Virginia, North Carolina 1 Aug.-31 Dec.
Richmond, Va. campaign
Expedition to Fort Fisher, N. C. 7-27 Dec.

6 Northern Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.-31 Dec.

7 Shenandoah valley campaign, Va. 7 Aug.-28 Nov.
Battle of Winchester, or the Opequon, Va. 19 Sep.
Battle of Cedar creek, Va. 19 Oct.

8 South Carolina, Georgia, Florida 14 Nov.-31 Dec.
Savannah, Ga. campaign, or Sherman's march to the sea 15 Nov.-21 Dec.

9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 14 Nov.-23 Jan. 1865
Battle of Franklin, Tenn. 30 Nov.
Battle of Nashville, Tenn. 15-16 Dec.

.738 Campaign of 1865

1 Northern and southeastern Virginia, North Carolina, West Virginia, Maryland, Pennsylvania 1 Jan.-30 June

2 Richmond, Va. campaign 1 Jan.-3 Ap.

3 Expedition to and capture of Fort Fisher, N. C. 3-17 Jan.

4 Appomattox, Va. campaign 29 Mar.-9 Ap.
Battle of Five Forks, Va. 1 Ap.
Surrender of Gen. Lee 9 Ap.

5 North Carolina, South Carolina, southern Georgia, east Florida 1 Jan.-30 June
Campaign of the Carolinas 1 Jan.-26 Ap.

6 Louisiana, trans-Mississippi 1 Jan.-30 June

7 Kentucky, southwestern Virginia, Tennessee, northern and central Georgia, Mississippi, Alabama, west Florida 1 Jan.-30 June
Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga. 22 Mar.-24 Ap.

8 Mobile, Ala. campaign 17 Mar.-4 May

9 Pacific coast 1 Jan. 1861–30 June 1865

973.74 General military history

.741 Northern side

1 Regular army
2 Volunteers, quotas
3 Bounties
4 Drafts
5 Negro troops
6 Special armies or corps
Army of the Cumberland
Army of the Potomac
2d army corps
19th army corps etc.
7 Special branches or services
Cavalry
Artillery
Engineers
Signal service
Guerrillas
Commissariat
8 General orders
9 Regimental losses

.742 Southern side
Guerrillas

.743 Foreign elements
Divided like 940

.744-.749 Separate states and regimental histories
Divided like 974-979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers.

A for official publications
A 1 Adjutant-general's reports
A 2 Lists of soldiers
B–D, General works on the part taken by the state in the conflict
E Histories of cavalry regiments
F Heavy artillery
G Light artillery
J–L Infantry
J regiments 1-99
K regiments 100-199
L regiments 200-299
The individual regiment is marked by adding its number after the letter; E 5, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments 0 must be prefixed to the number for the 1st 10 regiments, J09 9th regiment of infantry.
For the border states which also had regiments on the confederate side use similarly P-S.
P Cavalry
Q Heavy artillery
R Light artillery
S Infantry
For those states which passed ordinances of secession (see list under 973.713) reverse these numbers using E–L for confederate regiments and P-S for Union regiments.
Special numbers must be arranged for unnumbered and peculiarly numbered regiments and companies.

973.75 **Naval history**

During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campaigns and battles 973.73 and its subdivisions.

.751 Events of 1861

Hatteras inlet, N. C. 28 Aug. See also 973.7316

Port Royal, S. C. 7 Nov. See also 973.7319

Belmont, Mo. 7 Nov. See also 973.7315

Trent affair 8 Nov. See also 973.722

.752 Events of 1862

Fort Henry, Tenn. 6 Feb. See also 973.7322

Roanoke island, N. C. 7-8 Feb. See also 973.7324

Fort Donelson, Tenn. 14 Feb. See also 973.7322

Monitor and Merrimac 8-9 Mar.

Island no. 10, Ky. 16 Mar.-8 Ap. See also 973.7325

New Orleans, La. 18 Ap.-1 May. See also 973.7321

Memphis, Tenn. 6 June. See also 973.7325

.753 Events of 1863

Charleston, S. C. 7 Ap. See also 973.7331

Vicksburg, Miss. 16 Ap. See also 973.7343

Grand Gulf, Miss. 29 Ap. See also 973.7343

.754 Events of 1864

Red river, La. expedition 10 Mar.-22 May. See also 973.7363

Sassacus and Albemarle, Albemarle sound, N. C. 5 May See also 973.7365

Alabama and Kearsarge, off Cherbourg, France 19 June

Mobile bay, Ala. 5-22 Aug. See also 973.7372

Fort Fisher, N. C. 24 Dec. See also 973.7375

.755 Events of 1865

Fort Fisher, N. C. 14-15 Jan. See also 973.7383

.756 History of special squadrons or ships

Atlantic squadron

Gulf squadron

.757 Confederate navy

Including the history of special squadrons or ships.

Alabama

Shenandoah

Florida

.758 Blockade and blockade running

.759 Privateers

.76 **War meetings, celebrations, anniversaries, commemorations**

See note under 973.36

For patriotic societies commemorating the civil war see 369.15-17

.761 War meetings

.762

.763 Flags; presentations of flags; Battle-flag day

.764

.765 Monuments, memorials. See also 718

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.767 Roll of honor. List of dead. For national cemeteries, see 719

.768 Memorial day

973.77 **Prisons, hospitals, charities, etc.**

.771 Southern prisons, prison life

1 Andersonville

2 Libby prison

.772 Northern prisons

.773 Exchange of prisoners, paroles

.774

.775 Medical dep't, surgeons, nurses. For military surgery see 617.9

.776 Hospitals, hospital sketches

.777 Charities

1 U. S. sanitary commission

2 Sanitary fairs

Soldiers homes, see 362.8

Soldiers orphan asylums, see 362.7

Freedmen's bureau, see 361

Pensions, 351.5

.778 Religious life, chaplains, revivals

1 U. S. Christian commission. See also 267.11

.78 **Personal narratives, vindication, secret service**

Personal narratives when relating to some special battle or event should be clast according to their subject

.781 Personal narratives, northern side

Including volumes of G. A. R. papers and Loyal legion

.782 Personal narratives, southern side

.783 Army life

.784 Southern army life, southern home life

.785 Secret service, spies

.786 Southern side

.79 **Illustrative material**

See note under 973.39

.791 Poetry

.792 Drama

.793 Fiction

.794 Addresses

.795 Sermons

.796 Humor

.797 Pictures

.798 Music

.799 Maps

.8 **Later 19th century** **1865-1901**

Period of reconstruction and civil service reform

.81 **Andrew Johnson** **15 Ap. 1865—4 Mar. 1869**

Born 29 Dec. 1808; died 31 July 1875

13th amendment abolishing slavery, adopted 18 Dec. 1865

See 326.8 and 342.739

Fenian invasion of Canada 31 May-2 June 1866. See 971

Nebraska admitted, 37th state, 1 Mar. 1867. See 978.2

Cession of Alaska by Russia 20 June 1867

Impeachment of Pres. Johnson Mar.-May 1868. See 351.99

14th amendment guaranteeing citizenship, adopted 28 July 1868

See 342.739

973.82 **Ulysses Simpson Grant** **4 Mar. 1869—4 Mar. 1877**
Born 27 Ap. 1822; died 23 July 1885
Treaty for annexation of Santo Domingo, signed 29 Nov. 1869; rejected by senate 30 June 1870. See 972.93
15th amendment guaranteeing suffrage, adopted 30 Mar. 1870 See 324.1 and 342.739
First provision for civil service reform 3 Mar. 1871. See 351.6
Geneva arbitration award 14 Sep. 1872. See 341.6; 973.722; 973.757
Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator, 23 Oct. 1872
Credit Mobilier investigation Dec. 1872-Feb. 1873
Coinage act 12 Feb. 1873. See 332.47
Modoc war, California, Nov. 1872-June 1873
Financial panic 19-30 Sep. 1873. See 332
Virginius incident Oct.-Dec. 1873
Whisky ring 1872-75. See 336.73
Civil rights act 1 Mar. 1875
Colorado admitted, 38th state, 1 Aug. 1876. See 978.8
Centennial exposition, Philadelphia, 10 May-10 Nov. 1876. See 606
Electoral commission, Feb. 1877

.83 **Rutherford Birchard Hayes** **4 Mar. 1877—4 Mar. 1881**
Born 4 Oct. 1822; died 17 Jan. 1893
Halifax fishery award 23 Nov. 1877
Bland silver act 28 Feb. 1878. See 332.47
Resumption of specie payment 1 Jan. 1879. See 332.5 and 336.73

.84 **James Abram Garfield** **4 Mar. 1881—19 Sep. 1881**
Born 19 Nov. 1831; died 19 Sep. 1881

Chester Alan Arthur **19 Sep. 1881—4 Mar. 1885**
Born 5 Oct. 1830; died 18 Nov. 1886
International cotton exposition 5 Oct.-31 Dec. 1881. See 606
Edmund act to suppress polygamy 22 Mar. 1882. See 298
Pendleton civil service reform act 11 Jan. 1883. See 351.6

.85 **Grover Cleveland** **4 Mar. 1885—4 Mar. 1889**
Born 18 Mar. 1839
Act regulating the presidential succession 19 Jan. 1886. See 353.03
Mexican war pension act 29 Jan. 1887. See 351.5
Act creating Inter-state commerce commission 4 Feb. 1887. See 385
Dependent pension bill vetoed 11 Feb. 1887. See 351.5
Centennial anniversary of Constitution, Philadelphia, Pa. 15-17 Sep. 1887
Act to establish the Dep't of labor 13 June 1888. See 331
Fisheries treaty, signed 15 Feb. 1888; rejected by senate 21 Aug. 1888. See 339.9 and 341.273
Act to make Dep't of agriculture an executive dep't 9 Feb. 1889. See 630.6 and 353.8

973.86 **Benjamin Harrison** **4 Mar. 1889—4 Mar. 1893**
Born 20 Aug. 1833
Opening of Oklahoma 2 Ap. 1889. See 976.6
North Dakota admitted, 39th state, 2 Nov. 1889. See 978.4
South Dakota admitted, 40th state, 2 Nov. 1889. See 978.3
Montana admitted, 41st state, 8 Nov. 1889. See 978.6
Washington admitted, 42d state, 11 Nov. 1889. See 979.7
International American conference 2 Oct. 1889-19 Ap. 1890 See 341.1
Idaho admitted, 43d state, 3 July 1890. See 979.6
Wyoming admitted, 44th state, 10 July 1890. See 978.7
Sherman silver act, repealing silver act of 1878, 14 July 1890. See 332.47
McKinley tariff act 1 Oct. 1890. See 337.3
Controversy with Chile Oct. 1891-July 1892. See 983
Geary Chinese exclusion act 5 May 1892. See 325.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate 15 Feb. 1893; withdrawn 9 Mar. 1893. See 996.9

.87 **Grover Cleveland, second term** **4 Mar. 1893—4 Mar. 1897**
World's Columbian exposition, Chicago, 1 May-30 Oct. 1893. See 606
Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893. See 332.47
Wilson tariff act 27 Aug. 1894. See 337.2
Income tax law decided unconstitutional by U. S. supreme court 8 Ap. 1895. See 336.24
U. S. commission on boundary between Venezuela and British Guiana appointed 1 Jan. 1896. See 987
Utah admitted, 45th state, 4 Jan. 1896. See 979.2

.88 **William McKinley** **4 Mar. 1897—**
Born 29 Jan. 1844
Dingley tariff act 24 July 1897
Annexation of Hawaii 7 July 1898

.89 War with Spain
War declared 21 Ap. 1898
Protocol signed 12 Aug. 1898
Treaty of peace signed at Paris 10 Dec. 1898; ratified 11 April 1899

.891 Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898

.892 Diplomatic history

.893 Special campaigns and battles
Siege of Santiago 22 June-17 July 1898
Battle of El Caney 1 July 1898

.894 General military history
May be subdivided like 973.74

.895 Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera's squadron 3 July 1898

.896 War meetings, celebrations, anniversaries

.897 Prisons, hospitals, etc.

.898 Personal narratives

.899 Illustrative materials

974 North-Eastern or North Atlantic. New England.

.1	**Maine.**
.11	Aroostook.
.12	Somerset. Piscataquis.
.13	Penobscot.
.14	Washington. Hancock.
.15	Waldo. Knox. Lincoln.
.16	Kennebec.
.17	Franklin. Oxford.
.18	Androscoggin. Sagadahoc.
.19	Cumberland. York.

974.2	**New Hampshire.**
.21	Coos.
.22	*White Mts.*
.23	Grafton.
24	Carroll. Belknap.
.25	Strafford.
.26	Rockingham.
.27	Merrimac. Sullivan.
.28	Hillsborough.
.29	Cheshire.
.3	**Vermont.**
.31	Grand Isle. Franklin. Chittenden.
.32	Orleans. Essex.
.33	Caledonia. Lemoille.
.34	Washington.
.35	Addison.
.36	Orange. Windsor.
37	Rutland.
.38	Bennington.
.39	Windham.
.4	**Massachusetts.**
.41	Berkshire.
.42	Franklin. Hampshire. Hampden.
.43	Worcester.
.44	Middlesex.
.45	Essex.
.46	Suffolk. *Boston.*
.47	Norfolk.
.48	Plymouth. Bristol.
.49	Barnstable. Dukes. Nantucket.
.5	**Rhode Island.**
.51	Providence.
.52	*Providence city.*
.53	*Pawtucket.*
.54	Kent.
.55	Bristol.
.56	Newport.
.57	*Newport city.*
.58	*Block Island.*
.59	Washington.
.6	**Connecticut.**
.61	Litchfield.
.62	Hartford.
.63	*Hartford city.*
.64	Tolland. Windham.
.65	New London.
.66	Middlesex.
.67	New Haven.
.68	*New Haven city.*
.69	Fairfield.

974.7 **New York.**

.71 New York City.

.72 Vicinity of New York City.
1, Long Island; 2, Kings Co.; 3, *Brooklyn;* 4, Queens Co.; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, Westchester Co.; 8, Rockland Co.

.73 Southeast counties.
1, Orange, *West Point;* 2, Putnam; 3, Dutchess; 4, Ulster; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.;* 9, Columbia.

.74 Middle east counties.
1, Rensselaer, *Troy;* 2, Albany; 3, *Albany City;* 4, Schenectady; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, Saratoga; 9, Washington.

75 Northern counties.
1, Warren, *Lake George;* 2, Hamilton; 3, Essex, *Adirondacks;* 4, Clinton, *Lake Champlain;* 5, Franklin; 6, St. Lawrence; 7, Jefferson; 8, *The Thousand Islands;* 9, Lewis.

.76 North central counties.
1, Herkimer; 2, Oneida; 3, *Utica;* 4, Madison; 5, Onondaga; 6, *Syracuse;* 7, Oswego; 8, Cayuga; 9, Seneca.

.77 South central counties.
1, Tompkins; 2, Cortland; 3, Chenango; 4, Otsego; 5, Broome; 6, *Binghamton;* 7, Tioga; 8, Chemung; 9, *Elmira.*

.78 West central counties.
1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, Livingston; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester.*

.79 Western counties.
1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo;* 8, Niagara; 9, *Niagara Falls.*

.8 **Pennsylvania.**

.81 Southeast counties. Philadelphia and Chester group.
1, Philadelphia; 2, Montgomery; 3, Chester; 4, Delaware; 5, Lancaster; 6, Berks; 7, Schuylkill; 8, Dauphin; 9, Lebanon.

.82 Eastern counties. Bucks group.
1, Bucks; 2, Northampton; 3, Wayne; 4, Pike; 5, Monroe; 6, Carbon; 7, Lehigh.

.83 Northeast counties. Northumberland group.
1, Northumberland; 2, Luzerne; 3, *Wilkes-Barré;* 4, Susquehanna; 5, Wyoming; 6, Lackawanna; 7, *Scranton;* 8, Columbia; 9, Montour.

.84 Southeast central counties. Cumberland group.
1, York; 2, Adams; 3, Cumberland; 4, Franklin; 5, Perry; 6, Mifflin; 7, Juniata; 8, Union; 9, Snyder.

.85 Northeast central counties. East Lycoming group.
1, Lycoming; 2, ; 3, Centre; 4, Clinton; 5, Potter; 6, Tioga; 7, Bradford; 8, ; 9, Sullivan.

.86 Northwest central counties. West Lycoming group.
1, Clearfield; 2, Jefferson; 3, McKean; 4, ; 5, Elk; 6, Cameron; 7, Warren; 8, Forest; 9, Clarion.

.87 Southwest central counties. Bedford group.
1, Bedford; 2, Fulton; 3, Huntingdon; 4, ; 5, Blair; 6, *Altoona;* 7, Cambria; 8, ; 9, Somerset.

.88 Southwest counties. Westmoreland group.
1, Westmoreland; 2, Washington; 3, Greene; 4, Fayette; 5, Allegheny; 6, *Pittsburg;* 7, *Allegheny City;* 8, Armstrong; 9, Indiana.

.89 Northwest counties. Alleghany group.
1, Butler; 2, Beaver; 3, Lawrence; 4, ; 5, Mercer; 6, Venango; 7, Crawford; 8, ; 9, Erie.

974.9 **New Jersey.**

.91 East Jersey.

.92 Northern counties.
1, Bergen; 2, ; 3, Passaic; 4, *Paterson;* 5, ; 6, Hudson; 7, *Jersey City;* 8, *Hoboken.*

.93 Central counties.
1, Essex; 2, *Newark;* 3, *Orange;* 4, ; 5, ; 6, Union; 7, *Elizabeth;* 8, *Rahway.*

.94 Southern counties.
1, Middlesex; 2, *New Brunswick;* 3, ; 4, Somerset; 5, ; 6, Monmouth; 7, ; 8, Ocean.

.95 West Jersey.

.96 Central counties.
1, Burlington; 2, ; 3, ; 4, ; 5, Mercer; 6, *Trenton;* 7, *Princeton.*

.97 Northern counties.
1, Hunterdon; 2, *Raritan;* 3, ; 4, Morris; 5, ; 6, Sussex; 7, ; 8, Warren.

.98 Upper southern counties.
1. Gloucester; 2, ; 3, ; 4, Atlantic; 5, ; 6, ; 7, Camden; 8, *Camden city.*

.99 Lower southern counties.
1, Salem; 2, *Salem city;* 3, ; 4, Cumberland; 5, *Bridgeton;* 6, ; 7, ; 8, Cape May.

975 South-Eastern or South Atlantic.

Including general works on "the South."

975.1 **Delaware**

Area 2,050 sq. mi.
Population 168,493 in 1890
3 counties

		Population	
.11	Newcastle	97 182	
.12	*Wilmington*		*61 431*
.14	Kent	32 664	
.17	Sussex	38 647	

975.2 **Maryland**

Area 12,210 sq. mi.
Population 1,042,390 in 1890
23 counties and Baltimore city

			Population	
.21	Eastern Maryland			
	.221	Worcester	19 747	
	.223	Somerset	24 155	
	.225	Wicomico	19 930	
	.227	Dorchester	24 843	
	.231	Caroline	19 903	
	.232	Talbot	19 736	
	.234	Queen Anne	18 461	
	.236	Kent	17 471	
	.238	Cecil	25 851	
.24	Southern Maryland			
	.241	St Mary	15 819	
	.244	Calvert	9 860	
	.247	Charles	15 191	
	.251	Prince George	26 080	
	.255	Anne Arundel	34 094	
	.256	*Annapolis*		*7 604*
.26		*Baltimore* (city)		*434 439*
.27	North Central			
	.271	Baltimore	72 909	
	.274	Harford	25 993	
	.277	Carroll	32 376	
	.281	Howard	16 269	
	.284	Montgomery	27 185	
	.287	Frederick	49 512	
	.288	*Frederick* (city)		*8 193*
.29	Western			
	.291	Washington	39 782	
	.292	*Hagerstown*		*10 118*
	.294	Allegany	41 571	
	.295	*Cumberland*		*12 729*
	.297	Garrett	14 213	

.3 **District of Columbia.**
.4 **West Virginia.**
.5 **Virginia.**
.6 **North Carolina.**
.7 **South Carolina.**
.8 **Georgia.**
.9 **Florida.**

976 South Central or Gulf.

.1 **Alabama.**
.2 **Mississippi.**
.3 **Louisiana.**
.4 **Texas.**
.5
.6 **Indian Territory. Oklahoma.**
.7 **Arkansas.**
.8 **Tennessee.**
.9 **Kentucky.**

977 North Central or Lake.

.1 **Ohio.**
.2 **Indiana**

1809 Indiana territory with present boundaries established
1816 Indiana admitted
Area 36,350 sq. mi.
Population 2,192,404 in 1890
92 counties

			Population	
.21	Southeast counties			
	.211	Dearborn	23 364	
	.212	Ohio	4 955	
		Switzerland	12 514	
	.213	Jefferson	24 507	
	.214	Ripley	19 350	
	.215	Franklin	18 366	
	.216	Decatur	19 277	
	.217	Jennings	14 608	
	.218	Scott	7 833	
		Clark	30 259	
		Jeffersonville		*10 666*
	.219	Floyd	29 458	
		New Albany		*21 059*
.22	Central south counties			
	.221	Harrison	20 786	
	.222	Washington	18 619	
	.223	Jackson	24 139	
	.224	Bartholomew	23 867	
	.225	Brown	10 300	
		Monroe	17 673	
	.226	Lawrence	19 792	
	.227	Orange	14 678	
	.228	Crawford	13 941	
	.229	Perry	18 240	

Indiana

			Population	
977.23		Southwest counties		
	.231	Spencer	22 060	
	.232	Warrick	21 161	
	.233	Vanderburg	57 809	
		Evansville		*50 756*
	.234	Posey	21 529	
	.235	Gibson	24 920	
	.236	Pike	18 544	
	.237	Dubois	20 253	
	.238	Martin	13 973	
		Daviess	26 227	
	.239	Knox	28 044	
.24		West central counties		
	.241	Sullivan	21 877	
	.242	Greene	24 379	
	.243	Owen	15 040	
	.244	Clay	30 536	
	.245	Vigo	50 195	
		Terre Haute		*30 217*
	.246	Vermilion	13 154	
		Parke	20 296	
	.247	Fountain	19 558	
	.248	Montgomery	28 025	
	.249	Putnam	22 335	
.25		Central counties		
	.251	Morgan	18 643	
		Johnson	19 561	
	.252	Marion	141 156	
		Indianapolis		*105 436*
	.253	Hendricks	21 498	
	.254	Boone	26 572	
	.255	Clinton	27 370	
		Tipton	18 157	
	.256	Hamilton	26 123	
	.257	Madison	36 487	
		Anderson		*10 741*
	.258	Hancock	17 829	
	.259	Shelby	25 454	
.26		East central counties		
	.261	Rush	19 034	
	.262	Fayette	12 630	
		Union	7 006	
	.263	Wayne	37 628	
		Richmond		*16 608*
	.264	Henry	23 879	
	.265	Delaware	30 131	
		Muncie		*11 345*
	.266	Randolph	28 085	
	.267	Jay	23 478	
	.268	Blackford	10 461	
	.269	Grant	31 493	

Indiana

			Population	
977.27		Northeast counties		
	.271	Huntington	27 644	
	.272	Wells	21 514	
	.273	Adams	20 181	
	.274	Allen	66 680	
		Fort Wayne		*35 393*
	.275	Whitley	17 768	
	.276	Noble	23 359	
	.277	Dekalb	24 307	
	.278	Steuben	14 478	
	.279	Lagrange	15 615	
.28		Central north counties		
	.281	Elkhart	39 201	
	.282	Kosciusko	28 645	
	.283	Wabash	27 126	
	.284	Miami	25 823	
	.285	Howard	26 186	
	.286	Cass	31 152	
		Logansport		*13 328*
	.287	Fulton	16 746	
	.288	Marshall	23 818	
	.289	St Joseph	42 457	
		South Bend		*21 819*
.29		Northwest counties		
	.291	Laporte	34 445	
		Michigan City		*10 776*
	.292	Starke	7 339	
		Pulaski	11 233	
	.293	White	15 671	
	.294	Carroll	20 021	
	.295	Tippecanoe	35 078	
		Lafayette		*16 243*
	.296	Warren	10 955	
	.297	Benton	11 903	
		Newton	8 803	
		Jasper	11 185	
	.298	Porter	18 052	
	.299	Lake	23 886	

977.3 Illinois

1809 Illinois territory formed
3 Dec. 1818 Illinois admitted
Area 56,650 sq. mi.
Population 3,826,351 in 1890
102 counties

		Population	
.31	Cook	1 191 922	
	Chicago		*1 099 850*
.32	Northeast counties		
	.321 Lake	24 235	
	.322 McHenry	26 114	
	.323 Kane	65 061	
	Aurora		*19 688*
	Elgin		*17 823*
	.324 Dupage	22 551	
	.325 Will	62 007	
	Joliet		*23 264*
	.326 Kendall	12 106	
	Grundy	21 024	
	.327 Lasalle	80 798	
	Streator		*11 414*
	.328 Dekalb	27 066	
	.329 Boone	12 293	
.33	Northwest counties		
	.331 Winnebago	39 938	
	Rockford		*23 584*
	.332 Ogle	28 710	
	.333 Stephenson	31 338	
	Freeport		*10 189*
	.334 Jo Daviess	25 101	
	Carroll	18 320	
	.335 Whiteside	30 854	
	.336 Lee	26 187	
	.337 Bureau	35 014	
	Putnam	4 730	
	.338 Henry	33 338	
	.339 Rock Island	41 917	
	Rock Island (city)		*13 534*
	Moline		*12 000*
	Mercer	18 545	
.34	West central counties		
	.341 Henderson	9 876	
	Warren	21 281	
	.342 McDonough	27 467	
	.343 Hancock	31 907	
	.344 Adams	61 888	
	Quincy		*31 494*
	.345 Pike	31 000	
	Scott	10 304	
	.346 Morgan	32 636	
	Jacksonville		*12 935*
	Cass	15 963	
	.347 Brown	11 951	
	Schuyler	16 013	
	.348 Fulton	43 110	
	.349 Knox	38 752	

		Population	
977.35	Central counties		
	.351 Stark	9 982	
	Marshall	13 653	
	.352 Peoria	70 378	
	Peoria (city)		*41 024*
	.353 Woodford	21 429	
	.354 Tazewell	29 556	
	.355 Mason	16 067	
	Menard	13 120	
	.356 Sangamon	61 195	
	Springfield		*24 963*
	.357 Logan	25 489	
	.358 Macon	38 083	
	Decatur		*16 841*
	Dewitt	17 011	
	.359 McLean	63 036	
	Bloomington		*20 434*
.36	East central counties		
	.361 Livingston	38 455	
	.362 Ford	17 035	
	.363 Kankakee	28 732	
	.364 Iroquois	35 167	
	.365 Vermilion	49 905	
	Danville		*11 491*
	.366 Champaign	42 159	
	.367 Piatt	17 062	
	Moultrie	14 431	
	.368 Douglas	17 669	
	.369 Edgar	26 787	
.37	Southeast counties		
	.371 Clark	21 899	
	.372 Coles	30 093	
	.373 Cumberland	15 443	
	.374 Jasper	18 188	
	.375 Crawford	17 283	
	.376 Lawrence	14 693	
	.377 Richland	15 019	
	.378 Wabash	11 866	
	.379		
	1 Edwards	9 444	
	2 Wayne	23 806	
	3 Jefferson	22 590	
	4 Marion	24 341	
	5 Clay	16 772	
	6 Effingham	19 358	
	7 Fayette	23 367	
	8 Shelby	31 191	

Illinois

977.38 Southwest counties

		Population	
.381	Christian	30 531	
.382	Montgomery	30 003	
.383	Macoupin	40 380	
.384	Greene	23 791	
.385	Calhoun	7 652	
	Jersey	14 810	
.386	Madison	51 535	
	Alton		*10 294*
.387	Bond	14 550	
	Clinton	17 411	
.388	Washington	19 262	
.389	St Clair	66 571	
	Belleville		*15 361*
	East St Louis		*15 169*

.39 Southern counties

.391	Monroe	12 948	
.392	Randolph	25 049	
.393	Perry	17 529	
.394	Franklin	17 138	
.395	Hamilton	17 800	
.396	White	25 005	
.397	Gallatin	14 935	
.398	Hardin	7 234	
.399			
	1 Pope	14 016	
	2 Saline	19 342	
	3 Williamson	22 226	
	4 Jackson	27 809	
	5 Union	21 549	
	6 Johnson	15 013	
	7 Massac	11 313	
	8 Pulaski	11 355	
	9 Alexander	16 563	
	Cairo		*10 324*

977.4 Michigan

1805 Organized as separate territory
1837 Admitted
Area 78,915 so. mi
Population 2,093,889 in 1890
84 counties

Lower peninsula

.41 Southwest counties

		Population	
.411	Berrien	41 285	
.412	Cass	20 953	
.413	Van Buren	30 541	
.414	Allegan	38 961	
.415	Ottawa	35 358	
.416	Barry	23 783	
.417	Kalamazoo	39 273	
.418	*Kalamazoo* (city)		*17 853*
.419	St Joseph	25 356	

.42 Central south counties

.421	Branch	26 791	
.422	Calhoun	43 501	
	Battle Creek		*13 197*
.423	Eaton	32 094	
.424	Clinton	26 509	
.425	Shiawassee	30 952	
.426	Ingham	37 666	
.427	*Lansing*		*13 102*
.428	Jackson	45 031	
	Jackson (city)		*20 798*
.429	Hillsdale	30 660	

.43 Southeast counties

.431	Lenawee	48 448	
.432	Monroe	32 337	
.433	Wayne	257 114	
.434	*Detroit*		*205 876*
.435	Washtenaw	42 210	
.436	Livingston	20 858	
.437	Genesee	39 430	
.438	Oakland	41 245	
.439	Macomb	31 813	

.44 Southeast central counties

.441	St Clair	52 105	
	Port Huron		*13 543*
.442	Lapeer	29 213	
.443	Sanilac	32 589	
.444	Huron	28 545	
.445	Tuscola	32 508	
.446	Saginaw	82 273	
	Saginaw (city)		*46 322*
447	Bay	56 412	
	Bay City		*27 839*
	West Bay City		*12 981*
.448	Midland	10 657	
.449	Gratiot	28 668	

Michigan

977.45 Southwest central counties

		Population	
.451	Isabella	18 784	
.452	Mecosta	19 697	
.453	Montcalm	32 637	
.454	Ionia	32 801	
.455	Kent	109 922	
.456	*Grand Rapids*		*60 278*
.457	Muskegon	40 013	
	Muskegon(city)		*22 702*
.458	Newaygo	20 476	
.459	Oceana	15 698	

.46 Northwest central counties

.461	Mason	16 385	
.462	Manistee	24 230	
	Manistee (city)		*12 812*
.463	Benzie	5 237	
	Leelanaw	7 944	
.464	Grand Traverse	13 355	
.465	Kalkaska	5 160	
.466	Missaukee	5 048	
.467	Wexford	11 278	
.468	Lake	6 505	
.469	Osceola	15 630	

.47 Northeast central counties

.471	Clare	7 558	
.472	Gladwin	4 208	
.473	Arenac	5 683	
.474	Iosco	15 224	
.475	Ogemaw	5 583	
.476	Roscommon	2 033	
.477	Crawford	2 962	
.478	Oscoda	1 904	
.479	Alcona	5 409	

.48 Northern counties

.481	Alpena	15 581	
.482	Presque Isle	4 687	
.483	Montmorency	1 487	
.484	Otsego	4 272	
.485	Antrim	10 413	
.486	Charlevoix	9 686	
.487	Cheboygan	11 986	
.488	Emmet	8 756	
.489	Manitou	860	

Michigan

977.49 Upper peninsula

		Population	
.491	Chippewa	12 019	
.492	Mackinac	7 830	
	Luce	2 455	
.493	Alger	1 238	
	Schoolcraft	5 818	
.494	Delta	15 330	
.495	Menominee	33 639	
	Menominee (city)		*10 630*
	Dickinson	Formed after 1890	
.496	Marquette	39 521	
	Ishpeming		*11 197*
.497	Baraga	3 036	
	Iron	4 432	
.498	Gogebic	13 166	
	Ontonagon	3 756	
.499	Houghton	35 389	
	Keweenaw	2 894	
	Isle Royale	135	

.5 **Wisconsin.**

.6 **Minnesota.**

.7 **Iowa.**

.8 **Missouri.**

.9

978 Western or Mountain.

Including general works on "the West."

.1 **Kansas.**

.2 **Nebraska.**

.3 **South Dakota.** Including works on Dakota as a whole.

.4 **North Dakota.**

.5

.6 **Montana.**

.7 **Wyoming.**

.8 **Colorado.**

.9 **New Mexico.**

979 Pacific.

.1 **Arizona.**

.2 **Utah.**

.3 **Nevada.**

.4 **California.**

.5 **Oregon.**

.6 **Idaho.**

.7 **Washington.**

.8 **Alaska.**

980 South America.

981 Brazil.

982 Argentine Republic. Patagonia.

983 Chile.

984 Bolivia.

985 Peru.

986 U. S. of Colombia. New Granada. Ecuador.

987 Venezuela.

988 Guiana.

989 Paraguay. Uruguay.

990 Oceanica. Polar Regions.

991 Malaysia.

.1, Borneo; .2, Celebes; .3, Moluccas or Spice Islands; .4, Philippine Islands.

992 Sunda.

.1, Sumatra; .2, Java.

993 Australasia.

.1, New Zealand; .2, New Caledonia; .3, Loyalty Islands; .4, New Hebrides; .5, Solomon Islands; .6, New Britain, New Ireland; .7, Admiralty Islands.

994 Australia.

.1, Western Australia; .2, South Australia; .3, Queensland; .4, New South Wales; .5, Victoria; .6, Tasmania.

995 New Guinea.

996 Polynesia.

.1, Fiji, Friendly and Navigator's Islands; .2, Society, Austral and Cook's Islands; .3, Marquesas Islands and Low Archipelago; .4, Minor Polynesian Islands; .5, Micronesia; .6, Caroline and Pelew Islands; .7, Ladrone Islands; .8, Marshall and Gilbert Islands; .9, Hawaii.

997 Isolated Islands.

998 Arctic Regions.

999 Antarctic Regions.

RELATIV SUBJECT INDEX

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

Topics accidentally omitted from the index will be found in a supplement at the end.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

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Table 1.—Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: i. e., 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be farther sub-divided as minutely as wished, like the history, 940–999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographical numbers are formed by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixed to the number given in the table below; e. g.: Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix the 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. State, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. State.

A number of unimportant topics, e. g. minor religious sects, which may be divided geographically, are omitted from this table.

373. Academies, private.
379. " public.
354. Administration (except U. S.).
923.5 " biography.
923.5 Admirals' lives.
283. American P. E. church.
922.3 " " " biography.
911. Ancient geography.
283. Anglican church.
922.3 " " biography.
591.9 Animals, geographical distribution.
328. Annals, legislative.
913. Antiquities, archæology.
922.3 Archbishops' lives, Anglican.
922.2 " " Roman catholic.
720.9 Architecture, history of.
923.5 Army biography.
709. Art, history of.
362.9 Asylums.
027.2 Atheneum libraries.
912. Atlases.
923.3 Bankers' lives.
286.1 Baptist, Calvinistic.
286.2 " Free will.
286.3 " Seventh day.
922.6 " lives.
016.9 Bibliography of history.
015. " special countries.
920.0 Biography of countries, collective; also religious biography 922.2 to 922.8, and biography of sociology 923.1 to 923.8.
922.3 Bishops' lives, Anglican and P. E.
922.2 " " Roman catholic.
655.4 Bookselling, history of.
581.9 Botany, geographical.
284.2 Calvinist church.
922.4 " lives.
923.3 Capitalists' lives.
922.2 Cardinals' "
282. Catholic church.
922.2 " " biography.
284.8 " Old, church.
361.9 Charitable associations.
283. Church, Episcopal.
922.3 " " biography.
27 " history.
027.3 Circulating libraries.
027.4 City libraries, public.
923.5 Civil service biography.
027.2 Club libraries.
367.9 Clubs, social.
332.49 Coinage, history of.
027.7 College libraries.
378. Colleges.
325. Colonies.
923.8 Commerce, biography of.
285.8 Congregational church.
922.5 " " biography.
342. Constitutional law.
922.4 Continental Protestants' lives.
655.6 Copyright.
343. Criminal law.
923.4 Criminals' lives.
614.12 Deaths and death-rates.
91 Description, geographical.
91 Directories.
591.9 Distribution of animals, geog.
549.9 " " minerals "
581.9 " " plants "
572.9 " " races "
284.1 Dutch reformed church (except America).
285.7 Dutch reformed church (in America).
922.4 Dutch reformed church biography.
27 Ecclesiastical history.
378. Education, college.
372.9 " elementary.
370.9 " history of.

373. Education, intermediate (private).
376.9 " of woman.
373. " private academies.
379. " public school.
923.7 Educators' lives.
372.9 Elementary education.
325.1 Emigrants.
923.1 Emperors' lives.
027.4 Endowed libraries.
373. " schools.
628.09 Engineering, sanitary.
283. Episcopal church.
922.3 " " biography.
287.6 " Methodist, church.
922.7 " " " biog.
572.9 Ethnology.
027.1 Family libraries.
376.9 Female education.
336. Finance.
923.3 Financiers' lives.
349. Foreign law.
327. " relations.
354. " states, administration.
560.9 Fossils, geographical distribution.
027.9 Free news rooms.
027.4 " public libraries.
289.6 Friends or quakers.
922.8 " " " biography.
027.0 General libraries, hist., reports, etc.
581.9 Geographical botany.
591.9 " dist. of animals.
560.9 " " " fossils.
549.9 " " " minerals.
572.9 " " " races.
91 Geography, description.
911. " historical.
912. " maps.
55 Geology.
724.3 Gothic revival, architecture.
724.4 " Victorian, "
354. Government admin. (except U. S.).
027.5 " libraries.
352.0 " local.
923.2 Governors' lives.
724.2 Grecian revival, architecture.
614.09 Health, public.
911. Historical geography.
016.9 History, bibliography of.
362.9 Hospitals.
284.5 Huguenots.
922.4 " biography.
613.09 Hygiene.
325. Immigration.
338.9 Industrial legislation.
607. Institutes of technology.
368.9 Insurance.

373. Intermediate education.
923.4 Judges' lives.
923.1 Kings' lives.
923.4 Law biography.
342. " constitutional.
343. " criminal.
349. " foreign.
338.9 Legislation, industrial.
328. Legislative bodies and annals.
923.2 Legislators' lives.
027.0 Libraries, general, histories, rep., etc.
352.0 Local government.
284.1 Lutheran church.
922.4 " " biography.
912. Maps.
923.8 Merchants' lives.
287.6 Methodist episcopal.
922.7 " biography.
553.70 Mineral waters.
549.9 Minerals, geographical distribution.
332.49 Mints, history.
780.9 Music, history of.
015. National bibliography.
920.0 " biography.
923.5 Naval "
724.6 Néo-Grec architecture.
027.9 News rooms, free.
923.2 Nobles' lives.
560.9 Paleontology.
027.8 Parish libraries.
328. Parliamentary bodies.
329.9 Parties, political (except U. S.).
923.6 Philanthropists' lives.
912. Plans of cities, etc.
581.9 Plants, geographical distribution.
363.9 Political associations.
923.3 " economy, biography.
329.9 " parties (except U. S.).
923.2 " science, biography.
320.9 " " history of.
923.2 Politicians' lives.
312. Population, statistics of.
373. Preparatory schools.
285.1 Presbyterian church in America.
285.2 " " " Gr. Britain.
922.5 " " biography.
923.1 Presidents' lives.
655.1 Printing, history of.
365.9 Prisons.
027.1 Private libraries.
373. " schools.
027.2 Proprietary libraries.
283. Protestant Episcopal church.
922.3 " " " biog
922.4 Protestants, Continental, lives.
614.09 Public health.

027.4 Public libraries.
379. " school system.
015. Publishers' lists.
655.4 Publishing, history of.
289.6 Quakers.
922.8 " lives.
724.5 Queen Anne architecture.
923.1 Queens' lives.
572.9 Races of men.
923.8 Railroad officials' lives.
027.4 Rate supported libraries.
027.9 Reading rooms, free.
364.9 Reformatory institutions.
284.1 Reformed church.
285.7 " (Dutch) church in Amer.
922.4 " " " biography.
327. Relations, foreign.
27 Religious history.
724.1 Renaissance architecture.
282. Roman Catholic church.
922.2 " " " biography.
724.8 Romanesque revival, architecture.
923.1 Rulers, Chief, lives.
628.09 Sanitary engineering, history, etc.
284.7 Scandinavian church.
922.4 " " biography.
027.8 School libraries.
923.7 " officers' biography.
373. Schools, private.
379. " public, system.
508. Scientific travels.
366.9 Secret societies.
373. Seminaries, private.
923.5 Service, Civil, biography.
286.3 Seventh day baptist.
922.6 " " " biography.
289.8 Shakers.
922.8 " biography.
653.09 Shorthand, history.

326.9 Slavery, history.
367.9 Social clubs.
366.9 Societies, secret.
027.2 Society libraries.
923.5 Soldiers' lives.
379. State education.
027.5 " libraries.
923.2 Statesmen's lives.
31 Statistics.
312 " of population.
027.3 Subscription libraries.
324. Suffrage.
027.8 Sunday school libraries.
289.4 Swedenborgians.
922.8 " biography.
284.7 Swedish church.
922.4 " " biography.
724.7 Swiss architecture.
923.7 Teachers' lives.
607. Technical schools.
724.7 Timber architecture.
027.4 Town libraries, public.
91 Travel, description.
508 " scientific.
341.2 Treaties, texts and history.
724.4 Tudor architecture.
288. Unitarian church.
922.8 " biography.
289.1 Universalist church.
922.8 " " biography.
378. Universities, history, reports, etc.
027.7 University libraries.
724.4 Victorian Gothic, architecture.
324. Voting.
922.4 Waldenses biography.
553.70 Waters, mineral.
376.9 Woman's education.
591.9 Zoölogy, geographical.

Table 2.— Form Divisions.

The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alphabetical list of these divisions, and the figures prefixed should be *added* to the number of the subject to be sub-divided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06 Academies.
06 Acts of societies.
04 Addresses.
06 Associations.
02 Charts. Tabular views. Compends.
08 Collected works.
08 Collections.
02 Compends.
03 Concordances.
03 Cyclopedias.
03 Dictionaries.
04 Discourses.
04 Disputations.
07 Education.
03 Encyclopedias.
04 Essays.
06 Exhibitions.
08 Extracts.
09 History.
04 Lectures.
04 Letters.
03 Lexicons.
08 Libraries, collections, series.
05 Magazines.
02 Manuals.
08 Maxims.
01 Methods.
08 Miscellanies.
07 Museums.
02 Outlines.
04 Papers.
05 Periodicals.
01 Philosophy.
08 Polygraphy.
06 Reports of societies.
05 Reviews.
07 Schools.
07 Seminaries.
06 Societies.
07 Study.
02 Systems.
07 Teaching.
01 Theories.
04 Tracts.
07 Training schools.
06 Transactions.
08 Treatises.
01 Utility.

Table 3.— Languages.

The table below includes all languages mentioned in the classification, except those in 494—499, not yet sub-divided.

Any language in this table may be sub-divided like 420, English.

Any philological topic in the index may be transferred to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to sub-divide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All three methods give the same result.

491.58 Afghani.
492.8 Amharic.
429. Anglo Saxon.
492.7 Arabic.
492.1 Aramaic.
491.54 Armenian.
491.68 Armorican.
492.19 Assyrian.
491.52 Avestan, Zend.
492.19 Babylonian.
491.52 Bactrian, Old.
491.68 Bas Breton.
491.69 Basque.
491.44 Bengali.
491.86 Bohemian.
491.68 Breton, Bas.
491.81 Bulgarian.
492.6 Carthaginian.
449.9 Catalan.
492.2 Chaldee.
491.81 Church Slavonic.
493.2 Coptic.
491.67 Cornish.
491.83 Croatian.

492.19 Cuneiform.
491.65 Cymric Group.
491.66 " or Welsh.
439.8 Danish.
439.4 Deutsch, Platt.
439.3 Dutch.
493.1 Egyptian, Old.
42 English.
427.01 " Old.
491.61 Erse, Gadhelic group.
491.63 " Gaelic.
492.8 Ethiopic.
477.5 Etruscan.
439.6 Faroese.
439.3 Flemish.
44 French.
447.01 " Old.
439.2 Frisian.
491.61 Gadhelic Group.
491.63 Gaelic or Scotch.
43 German.
437.02 " Middle High.
437.01 " Old High.
439.9 Gothic.
48 Greek.
489. " Modern.
491.47 Gujerati.
492.4 Hebrew.
492.9 Himyaritic.
491.43 Hindi.
491.1 Hindu languages.
491.43 Hindustani.
491.53 Huzwaresh.
139.6 Icelandic.
491.1 Indic Group.
491.62 Irish.
45 Italian.
492.4 Jewish.
491.83 Kroatian.
491.57 Kurdish.
47 Latin.
479. " Medieval.
491.93 Lettish.
491.92 Lithuanian.
491.93 Livonian.
439.3 Low Dutch.
479 " Latin.
491.64 Manx.
491.46 Marathi.
479. Medieval Latin.
437.02 Middle High German.
489. Modern Greek.
491.55 " Persian.
491.87 Moravian.
492.19 Nineveh Cuneiform.
439.6 Norse, Old.
439.8 Norwegian.
491.52 Old Bactrian.
493.1 " Egyptian.
427.01 " English.
447.01 " French.
437.01 " High German.
439.6 " Norse.
491.51 " Persian.
491.91 " Prussian.
439.2 " Saxon.
491.45 Orissa.
491.56 Ossetic.
491.3 Pali.
491.42 Panjabi.
491.53 Pehlevi.
491.55 Persian, Modern.
491.51 " Old.
492.3 Peshito.
492.6 Phenician.
439.4 Platt Deutsch.
491.89 Polabian.
491.85 Polish.
469. Portuguese.
491.2 Prakrit.
449. Provençal.
491.91 Prussian, Old.
491.58 Pushtu.
459.9 Rhaeto-Romansch.
489. Romaic.
459. Roumanian.
459.9 Rumansh.
491.7 Russian.
491.79 Ruthenian.
492.5 Samaritan.
491.2 Sanskrit.
429. Saxon, Anglo-.
439.2 Saxon, Old.
439.5 Scandinavian languages.
491.63 Scotch or Gaelic.
491.82 Servian.
491.41 Sindhi.
491.48 Singhalese.
491.81 Slavonic, Church.
491.87 Slovakian.
491.84 Slovenian.
491.88 Sorbian.
46 Spanish.
439.7 Swedish.
492.3 Syriac.
491.45 Uriya.
459. Wallachian.
491.66 Welsh.
491.52 Zend.

Table 4. — Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
Provençal "	449.1
Arabic "	492.71
Gaelic "	491.631
Syntax of English verbs	425.8
" Modern Greek verbs	489.58
" Danish "	439.858
" Armenian "	491.5458
Inflection of English nouns	425.15
" Anglo-Saxon nouns	429.515
" Hebrew "	492.4515
" Welsh "	491.66515

18 Abbreviations.
12 Ablaut.
16 Accent, pronunciation.
61 " prosody.
51 Accidence.
25 Accusative, etymology.
55 " syntax.
26 Adjectival forms, derivation.
516 Adjectives, inflection.
56 " syntax.
29 Adverbs, derivation.
59 " syntax.
22 Affixes, derivation.
11 Alphabet.
21 Analogy.
53 Analysis, grammar.
67 Antistrophe, prosody.
28 Aorist, etymology.
58 " syntax.
7 Archaisms.
709 Argot.
53 Arrangement of words and clauses.
56 Articles, syntax.
12 Aspirates.
28 Augment, etymology.
83 Barbarisms.
83 Blunders.
25 Case endings, derivation.
55 Cases, syntax.
87 Chrestomathies.
53 Clauses, arrangement of.
516 Comparison, inflection.
26 Comparison, signs of, derivation.
54 Conditional sentences.
518 Conjugation.
29 Conjunctions, etymology.
59 " syntax.
28 Conjunctive mood, etymology.
58 " " syntax.
13 Consonants.
12 Crasis.
25 Dative case, etymology.
55 " " syntax.
515 Declension of nouns.
2 Derivation of words.
7 Dialects.
3 Dictionaries.
25 Diminutives, derivation.
12 Diphthongs.
17 Diplomatics.
701 Early forms of language.
86 Elementary readers.
53 Ellipsis.
52 Enallage.
83 Errors of speech.
2 Etymology, derivation.
51 " inflection.
89 Examination papers.
63 Feet, prosody.
64 Figures of prosody.
82 First lessons.
63 Foot, prosody.
24 Foreign elements.
25 Gender, etymology.
25 Genitive case, etymology.
55 " " syntax.
7 Glossaries, dialects.
3 " language.
83 Grammatical errors.
65 Hexameters.
64 Hiatus.
54 Hypothetical sentences.
31 Idioms.
88 Individual authors, texts.
28 Infinitive mood, etymology.
58 " " syntax.
51 Inflection.
516 " of adjectives.
515 " " nouns.
517 " " pronouns.
518 " " verbs.
17 Inscriptions.
29 Interjections, etymology.
59 " syntax.
29 Interrogatives, etymology.
59 " syntax.
21 Laws of language.
1 Letters, alphabet.

3 Lexicography.
3 Lexicons.
17 Manuscripts.
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form.
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.
892.8	Amharic.
892.7	Arabic.
892.1	Aramaic.
891.54	Armenian.
891.68	Armorican.
892.19	Assyrian.
891.52	Avestan, Zend.
892.19	Babylonian.
891.52	Bactrian, Old.
891.68	Bas Breton.
891.69	Basque.
891.44	Bengali.
891.86	Bohemian.
891.68	Breton, Bas.
891.81	Bulgarian.
892.6	Carthaginian.
849.9	Catalan.
892.2	Chaldee.
891.81	Church Slavonic.
893.2	Coptic.
891.67	Cornish.
891.83	Croatian.
892.19	Cuneiform.
891.65	Cymric Group.
891.66	" or Welsh.
839.8	Danish.
839.4	Deutsch, Platt.
839.3	Dutch.
893.1	Egyptian, Old.
82	English.
891.61	Erse, Gadhelic group.
891.63	" Gaelic.
892.8	Ethiopic.
839.6	Faroese.
839.3	Flemish.
84	French.
839.2	Frisian.
891.61	Gadhelic Group.
891.63	Gaelic or Scotch.
83	Germar.
839.9	Gothic.
889.	Greek, Modern.
891.47	Gujerati.
892.4	Hebrew.
892.9	Himyaritic.
891.43	Hindi.
891.1	Hindu languages.
891.43	Hindustani.
891.53	Huzwaresh.
839.6	Icelandic.
891.1	Indic Group.
891.62	Irish.
85	Italian.
892.4	Jewish.
891.83	Kroatian.
891.57	Kurdish.
879.	Latin, Medieval.
891.93	Lettish.
891.92	Lithuanian.
891.93	Livonian.
839.3	Low Dutch.
879	" Latin.
891.64	Manx.
891.46	Marathi.
879.	Medieval Latin.
889.	Modern Greek.
891.55	" Persian.
891.87	Moravian.
892.19	Nineveh Cuneiform.
839.6	Norse, Old.
839.8	Norwegian.
891.52	Old Bactrian.
893.1	" Egyptian.
839.6	" Norse.
891.51	" Persian.
891.91	" Prussian.
839.2	" Saxon.
891.45	Orissa.
891.56	Ossetic.
891.3	Pali.
891.42	Panjabi.
891.53	Pehlevi.
891.55	Persian, Modern.
891.51	" Old.
892.3	Peshito.
892.6	Phenician.
839.4	Platt Deutsch.
891.89	Polabian.
891.85	Polish.
869.	Portuguese.
891.2	Prakrit.

849.	Provençal.
891.91	Prussian, Old.
891.58	Pushtu.
859.9	Rhaeto-Romansch.
889.	Romaic.
859.	Roumanian.
859.9	Rumansh.
891.7	Russian.
891.79	Ruthenian.
892.5	Samaritan.
891.2	Sanskrit.
839.2	Saxon, Old.
839.5	Scandinavian languages.
891.63	Scotch or Gaelic.
891.82	Servian.
891.41	Sindhi.
891.48	Singhalese.
891.81	Slavonic, Church.
891.87	Slovakian.
891.84	Slovenian.
891.88	Sorbian.
86	Spanish.
839.7	Swedish.
892.3	Syriac.
891.45	Uriya.
859.	Wallachian.
891.66	Welsh.
891.52	Zend.

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EXPLANATION

The field of knowledge is divided into nine main classes and these are numbered by the digits, 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *no* one of these classes are marked nought, and form a tenth class. Each class is similarly separated into 9 divisions, general works belonging to *no* division having nought in place of the division number. Divisions are similarly divided into 9 sections and the process is repeated as often as necessary. Thus 512 means Class 5 (Natural Science), Division 1 (Mathematics), Section 2 (Algebra), and every Algebra is numbered 512.

The books on the shelves and the cards in the subject catalog are arranged in simple numerical order, all class numbers being decimals. Since each subject has a definite number, it follows that all books on any subject must stand together. These tables show the order in which subjects follow one another. Thus 512 Algebra precedes 513 Geometry and follows 511 Arithmetic.

Summaries. The first summary shows the ten Classes into which all topics are divided. The second summary shows the nine Divisions of each of the ten classes, and is useful as a bird's-eye view of the whole scheme on a single page. Then follow ten pages, one for each class, showing the nine Sections into which each of the nine divisions of each class are divided. These pages are to be used for a synoptic view on a single page of the scope of each class.

Sub-sections. Following these three summaries is the complete classification, which repeats, in proper order, all the classes, divisions, and sections with all the sub-sections given under each section. Synonymous terms, examples, brief notes, dates, and various catch-words are often added to the simple heads for the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers. Therefore all references to numbers should be looked up in the **full tables of sub-sections**; never in the Summaries, which are really only a table of contents of the Complete Tables.

Index. After the tables is an index, in which all the heads of the tables are arranged in one simple alphabet, with the class number of each referring to its exact place in the preceding tables. This index includes also, as far as they have been found, all the synonyms or alternative names for the heads, and many other entries that seemed likely to help a reader find readily the subject sought. Though the user knows just where to turn to his subject in the tables, by first consulting the index he may be sent to other allied subjects, where he will find valuable matter which he would otherwise overlook.

Full explanations. Detailed illustrations and rules for the many applications of this system and full explanations of its mnemonic and other important features will be found in the introduction.

INTRODUCTION

[The simplified spellings used are strongly recommended for general adoption by both the American and English Philological Associations, including nearly all prominent scholars in English now living.]

Origin and growth.— The plan of the following Classification and Index was developt early in 1873. It was the result of several months' study of library economy as found in some hundreds of books and pamflets, and in over 50 personal visits to libraries. In this study the author became convinced that the usefulness of these libraries might be greatly increast without added expenditure. Only a fraction of the good possible could be gotten from a library without catalogs, indexes, and aids, to tell librarians and readers what the collection containd on any given subject; yet, by the methods then used, this could be done satisfactorily only at a cost so great as to be prohibitiv to all but a few wealthy libraries. With rare exceptions, libraries were growing rapidly. Catalogs, made at great cost, became antiquated soon after being finisht. The methods used involvd frequent remarking and re-arrangement of the books and remaking of catalogs and indexes, as the only escape from a confusion that seriously crippled usefulness. In this repetition of work experience and skill of previous librarians were largely lost. The great need was a system which should enable each librarian to stand on the shoulders of his predecessors, and fully utilize their labors; which should make the work done to-day permanent, instead of something to be superseded within a few years, and therefore not worth doing in the best way; which should supply the best appliances, instead of leaving the young librarian not only to learn how to work, but to make all his own tools.

Seventeen years' practical use of the system here explaind proves that it will accomplish this result; for with its aid catalogs, shelf lists, indexes, and references, essential to this increast usefulness, can be made faster and cheaper than by any method not having its essential features, and, when done, are better and vastly more permanent.

Practical utility and economy are the keynotes of the entire system, and no theoretical refinement has been allowd to modify the scheme, if it would detract from its usefulness or add to its cost.

It was chiefly necessary to find a method that would index books and pamflets on the shelves, the cards of a catalog, clippings and notes of scrap-books and index rerums, references to all these items, and indeed any literary material in any form, as readily as an ordinary index guides

to the proper page of a bound book. This difficult problem has been solvd by using no reference marks except the simplest symbols known to the human mind — the Arabic numerals — and by aiding their simplicity with many practical mnemonic devices.

The system has been found on trial equally valuable for cataloging and indexing, and for numbering and arranging books and pamflets on the shelves. For notes on other uses, see p. 37.

When the first edition was published in 1876, 12 pages of tables containing the thousand sections were criticised as being altogether too elaborate for use even in a large library. As fast, however, as the Relativ Index with its remarkable powers became known, users askt for further subdivisions, and both tables and Index have steadily grown since it has been found so easy to gain the admitted great advantages of close classification, and yet avoid the old difficulties by means of the Relativ Index.

Extent of use.— The register of libraries which have actually adopted the system, though growing rapidly, is known to be very incomplete. Names are often added of libraries which have used the system for five or 10 years without our learning the fact. A careful registry is kept of the buyer of each classification printed, but we make no assumption that a library has adopted the system because it has ordered a copy of the book.

We print below a brief table showing the growth of the four editions. The nearest estimate possible gives from 200–300 libraries, besides a large number of private book owners and literary workers having the system in daily use.

		No. of pages				
Edition	Date	Preface, etc.	Tables	Index	Total	Copies printed
1	1876	12	12	18	42	1,000
2	1885	66	162	86	314	500
3	1888	4	227	185	416	500
4	1891	41	234	191	466	1,000

What is the system?—A Relativ Index[1] with a subject classification, so numberd or letterd that reference is compact, accurate, and quickly made, is the essential feature, and anything beyond this is merely the application of this plan with various helps and accessories.

[1]Tho the author is interested only in the usefulness of the system, not in questions of priority of its invention, extended investigation by others fails to show that this most important feature of the system — the relativ index, on which all else hinges — had ever before been used as here to index by a single reference the most diverse material. The relativ location had been used, but not in the present combination with the subject index, which gives it most of its value. The tables of classification, while adopting suggestions from many sources, are original in their system of arrangement and notation, and in many minor features. The decimal form and many mnemonic features of the system have not been found in earlier use, tho since their invention in 1873, this as well as the subject index and other features have been very frequently copied, often with, but oftener without, acknowledgment of their source. But the author is glad to find this system, which has cost him so much labor, doing good service even for those who neglect to mention where they found so valuable a labor-saving literary tool.

Any subject classification with a *relativ* index in which the one entry indexes a book in the ordinary way, and at the same time indexes shelves, cards, clippings, or any other literary material, is a form of this system.

Decimal form of the system.— The author has devised and experimented with several different plans of classification and notation by means of numbers, letters, and combined numbers and letters, with bases of 26, 35, (the latter accepted by Mr Cutter and now most admirably workt out in his Boston Athenæum classification), 50, 100, and 150, yet none have seemd good enough to warrant fully working out and publishing details, except that here printed, based on Arabic numerals used decimally. The wide adoption of this system is largely due to the fact that no one ever complains that a classification is too simple, while there is great danger of the complaint of complexity. The simplicity of the decimal form has so commended itself that many think of it as the only form, tho obviously it would be just as much the "relativ index system" if the classification were wholly markt by letters.

The Subject Index is the simplest application of the symbols next in simplicity to 1, 2, 3; viz. a, b, c. This use of the simplest two sets of symbols known, with their common meanings, has given the system its reputation as the simplest yet proposed.

Best known decimal form.—The decimal form means simply that the heads are groupt and numberd with the common arithmetical figures used decimally. As the system here printed is the only decimal form that has thus far been carefully elaborated and publisht, it is commonly thought and spoken of as if it alone were the only possible form of the author's original plan; tho obviously an infinite variety of "relativ index systems" in decimal form could be made by filling the outline with different heads, or with the same heads in different order.

To make out a new set of heads would involve labor and cost vastly beyond the dreams of any person who has not tried exactly this work. The time actually spent on the tables as here printed, by various competent workers, would aggregate several years and cost thousands of dollars. The uniform and urgent advice of the experienced is to adopt a poorer scheme already made rather than undertake so herculean a labor. When done, the maker may possibly be better suited with it, but it is doubtful if many others will be. It is vastly wiser for any man whose time is of value, to use it in something more practically useful to himself and his library than in trying to construct a "satisfactory" scheme of classification. No one yet ever wholly suited himself or any one else, and probably no one ever will. By adopting this scheme already workt out he saves much time and money, gains the immense advantage of using a system in common with hundreds of

others, so that he may utilize their labors and investigations and share with them the economies of coöperation.

Relativ Subject Index.— The alfabetical Index, the most important feature of the system, is as complete as could be made by combining the headings of leading catalogs and bibliografies, and adding such as users of the system have found desirable in 17 years' experience. After all these efforts, new headings will still be needed, and will be added in each new edition.

The Index is designd to guide both in numbering and in finding books. In assigning numbers, the most specific head that will contain the book having been determind, reference to that head in the Index gives the class number which should be assignd. Conversely, in finding books on any given subject, reference to the Index gives the number under which they are to be sought on the shelves, in the shelf list, or in the subject catalog. Whenever a new subject comes up, it and its synonyms, with the class-number decided on, should be interlined in the Index, so that the classifier may be uniform with himself in future work.

The Index aims to give similar or synonymous words, and the same words in different connections, so that any person of intelligence will hardly fail to get the right number. A reader wishing to know something of the tariff looks under T, and, at a glance, finds 337 as its class-number. This guides him to the shelves, to all the books and pamfiets, to the shelf catalog, to the subject catalog on cards, to the index of books charged at the loan desk, and, in short, in simple numerical order, thruout the whole library to anything bearing on his subject. If he turns to the tables, he will see that it means class 3, Sociology; division 3, Political economy; section 7, Protection and free trade; but the number alone is enough to classify the book or to find it, for either cataloger or reader. If he had lookt under P for protection, or F for free trade, or D for duties, or C for customs, or under any other leading word relating to his subject, he would have been referd to 337, or some one of its sub-divisions.

Had he lookt for "railroad" he would have found after it 16 separate entries, each preceded by a catchword indicating the phase of the subject in the scheme. A book on railroads may be a treatise on the desirability of government ownership, control, etc., and then is clearly a question of social science; or it may be a practical hand-book for an employe, explaining business methods of railroading, running trains, handling freight, etc., when it is as clearly one of the useful arts. The cataloger knows to which of these heads his book belongs, and the reader knows in which of its phases he wishes to examin the subject. Moreover, the 3 and 6 beginning the numbers indicate clearly the character of each class. But even if the significance of these figures were entirely disregarded, no confusion would result, for, on consulting either of the numbers in the eatalog, in the scheme, or on the shelves the difference would be clearly seen.

In other cases, it is more useful to keep the books on the same subject together, tho treated from different standpoints. A glance at the Index tells either reader or classifier which plan has been adopted for each case.

All topics printed in black-face type in the Index are further divided in the tables, where one may see the subheads. This saves reprinting all these subdivisions which would increase the bulk of the Index many-fold; e. g. if one having a book on "prison labor" looks in the Index for "Convict labor" or "Prison contracts," he finds at once its special number 331.5; but if, on the other hand, he thinks to look only for the general subject "Labor," he finds in black-face type the entry "Labor, political economy, 331," and turning to the tables he finds under 331 the subdivision "331.5, Convict labor," the exact topic in hand.

The greatest objection to a clast catalog has always been the impossibility of knowing just where to put a book in cataloging, and just where to look for it when it is again wanted. Different librarians, or the same librarian at different times, clast the same or similar books in widely different places. Where one man did all the work, and held his place for a long series of years, there was a certain degree of uniformity; but even then there was danger of looking at the same book from different standpoints, thus causing confusion. When the daily press is full of one phase of a subject, the tendency is strong to class all books on this particular subject from the current point of view; and next year, if a different side of this same subject is again before the public, there is the same tendency to class books from the new point of view, in this way separating books on the same and putting together books on different phases. But, fortunately, practical usefulness does not require that the ideas of this one or that one be followd, but only that books of the same character be always put in the same place, and that there be some means of knowing readily where that place is. The Relativ Index, with its catchwords, was designd and is found in use to meet both these requirements, for it insures that books on the same phase of any subject coming before the classifiers shall be assignd to the same place, and that any reader seeking these books shall be referd to that place. If this is done, all requirements of a good classification are fild. If it is not done, the system is a failure; for the only real test of any scheme is its helpfulness to workers in the library.

Some prominent opponents of clast catalogs admit that the Relativ Subject Index, in deciding where to class a book at first, and where to look for it ever afterwards, has removed their strongest objections. Certainly it would be impossible to make an Index more compact or more easy of reference.

This Index allows a great portion of the work of classification to be

done in advance by experts, thus securing, at the merest fraction of the usual cost, better and more uniform results than would be possible to the ordinary cataloger, and reducing the labor of classing a library to much narrower limits than ever before.

Each of these thousands of subjects has been carefully assignd its number, many of them after long consideration and consultation with specialists. No individual is sufficiently learned to class wisely books on all subjects and sciences; but botanists can assign all botanical subjects to the right number, mathematicians all mathematical topics, and thus the Index will in time become as accurate as the best scholarship of the day can make it. Even if the decision reacht were not the wisest possible, all practical purposes are servd, because, as each cataloger copies the number from the same index, all books on that subject will be placed together; and, as each reader gets his number from this same Index, he will go directly to the books he seeks.

What the Relativ Index includes.— Most names of countries, towns, animals, plants, etc. have been omitted, the Index containing only those which are in the tables; e. g. it cannot enumerate all the species of trilobites, but when the classifier has found from the proper reference books that Remopleurides is a trilobite, the index will send him to 565.39, and he can classify his monograf on that subject.

Tables.— The essential complement of the Subject Index is the tables of classification, so mapt out as to show in four ways — viz., by size of type, face of type, indention, and number of figures prefixt — the rank of each subject in the classification.

The field of knowledge is divided into nine main classes, numberd by the digits 1 to 9. Cyclopedias, periodicals, etc., so general in character as to belong to *none* of these classes, are markt *nought*, and form a tenth class; e. g. class 1 is the library of Philosophy; class 5 is the library of Science; class 9, of History, etc. These special classes or libraries are then considerd independently, and each one is separated again into nine special divisions of the main subject, numberd from 1 to 9, as were the classes, general works belonging to *no* division having *nought* in place of the division number. Thus 59 is the ninth division (Zoölogy) of the fifth class (Science). A third division is then made by separating each of these divisions into 10 sections, numberd in the same way with 0 and the nine digits; and this decimal subdivision is repeated, till it secures as many subsections as may be needed in any topic. Thus 513 is the third section (Geometry) of the first division (Mathematics) of the fifth class (Natural science). This number, giving class, division, section and sub-section, if any, is calld the classification or the class number, and is applied to every book and pamflet belonging to the library. All geometries are thus numberd 513, all mineralogies 549, and so thruout the library all books on any given subject bear the number of that subject in the scheme.

Where 0 occurs in a class number, it has its normal zero value. Thus a book numberd 510 is class 5, division 1, but *no* section; i. e. the book treats of division 51 (Mathematics) in general, and is limited to no one section, as is geometry, markt 513; 500 indicates a treatise on science in general, limited to no division. A naught occurring in the first place would in the same way show that the book is limited to no class; e. g. a general cyclopedia which treats of all nine classes.

Choice and arrangement of heads.— The selection and arrangement of the many thousand heads of the classification cannot be explaind in detail for want of space. In all the work, philosophical theory and accuracy have been made to yield to practical usefulness. The impossibility of making a satisfactory classification of all knowledge as preservd in books, has been appreciated from the first, and theoretical harmony and exactness have been repeatedly sacrificed to practical requirements.

Sequence of allied subjects.— Wherever practicable, heads have been so arranged that each subject is preceded and followd by the most nearly allied subjects, and thus added convenience is secured both in catalogs and on shelves; e. g. Building (690) follows Mechanic trades (680) at the end of Useful arts, and Architecture follows at the beginning of Fine arts.

The student of Biology (570) finds fossil life or Paleontology (560) before, and vegetable life or Botany (580) after, this followd in turn by animal life or Zoölogy (590), ending with Mammals (599); while Useful arts (600) begin with human Anatomy (611) under Medicine, thus giving a regular growth from the fossil plant thru the vegetable and animal kingdoms to the living man.

Co-ordination.— Theoretically, the division of every subject into just 10 heads is absurd. Practically, it is desirable that classification be as minute as possible, without use of added figures; and the decimal principle, on which our scheme hinges, allows 10 divisions as readily as a less number.

This principle has proved wholly satisfactory in practice, tho apparently destroying proper co-ordination in some places. The difficulty in such cases is entirely obviated by the use of another figure, giving nine sub-sections to any subject of sufficient importance to warrant closer classification. In history, where classification is made chiefly by countries, a single figure is added, as in the other classes, to give a tenfold geografical division, and a zero followd by another figure is added to give a division into periods.

As all history is by countries, and as minute geografical subdivisions are needed for travels, guide books, and various other uses, the rule is adopted always to use 0 before the time or period figure. The 0 shows that there is no farther geografic division in that number, and that a period division is there introduced. This allows the use of

the same period division in various places, e. g. 942.05 England in time of the Tudors; 942.905 Wales under the Tudors; 942.7405 Yorkshire under the Tudors. As each figure added gives a tenfold division, any desired degree of minuteness may be secured in classing special subjects.

As in every scheme, many minor subjects are under general heads to which they do not strictly belong. In some cases, these heads are printed in a distinctiv type; e. g. 429 Anglo-Saxon, under English philology. The rule has been to assign these subjects to the most nearly allied heads, or where it was thought they would be most useful. The only alternativ was to omit them altogether. If any such omission occurs, it will be supplied as soon as discoverd, the intention being to provide a place in the tables for every known topic.

New subjects.—When any new topic arises, it is always closely related to some existing heads. If there be no blank space left for it, it is combined with the head nearest allied, and, if desired, by adding a decimal place abundant room is made for the new comer. The system is thus capable of unlimited expansion, and can never break down for lack of room for growth.

Catch-titles.—In naming headings, strict accuracy has often been sacrificed to brevity, for short familiar titles seemd more important than that the names given should express with fulness and exactness the character of all books catalogd under them. Many subjects, apparently omitted, will be found in the Index, assignd, with allied subjects, to a head which bears the name of the most important only. Reference to this Subject Index will decide at once many doubtful points.

Form distinctions.—The classification is mainly by *subject* or *content* regardless of form; but an additional form distinction for general treatises is found practically useful.

Thus, in Science there are many compends, dictionaries, essays, periodicals, and societies, treating of Science in general, and so having 0 for the division figure, but treating it under different forms, and, therefore, divided into sections according to this form: 501 for philosophy or theories of Science, 502 for compends, 503 for dictionaries. This treatment is as nearly as practicable uniform in all classes. Creasy's "Fifteen decisive battles" is 904, the first figure being 9, because the book is clearly history; the second figure 0, because limited to no division of class 9; and the third figure 4, because the book is a collection of essays.

These form distinctions are introduced at the beginning of the class because the number of general works is large, and these first numerals would otherwise be unused. They apply only to general treatises, which, without them, would have a class number ending in two naughts.

This form distinction is often used to subdivide general works on

divisions or even sections; e. g. under 510, works on mathematics in general are divided by form into 510.3, dictionaries of mathematics; 510.4, essays; 510.5, periodicals, etc., just as works on Science in general were divided. A dictionary of mathematics is 510.3, not 503, because every book belongs to the most specific head that will contain it; so 503 is limited to dictionaries or cyclopedias of science in general. Books treating of many subjects, such as general cyclopedias or periodicals, go in class 0, and are then divided by form into cyclopedias, periodicals, or societies.

Form divisions always have the same set of numbers, preceded by 0, viz.: 1, philosophy, theories, etc.; 2, compends, outlines; 3, dictionaries, cyclopedias; 4, essays, lectures, letters, etc.; 5, periodicals, magazines, etc.; 6, societies, associations, transactions, reports, etc.; 7, education, study, teaching, training, etc.; 8, polygraphy, collections, etc.; 9, history. Thus a periodical on any subject has the subject number followd by 05; e. g. a periodical on public health, 614.05.

But if the number already ends in 0, 0 is not repeated before form-division figures; e. g. a zoölogical magazine is 590.5, not 590.05.

Minute classification.—On first publication in 1876, a common criticism was that 1,000 heads could never be successfully used, however desirable so close classification might be. As soon, however, as actual experience proved it as easy to use 1,000 heads in the new system as 100 in the old, the obviously great practical value of close classification led one user after another strongly to urge the publication of subdivisions. This is now done in such a way that one may use the whole or any part of the sub-sections and ignore the rest without difficulty or confusion, thus allowing each to use minute subdivisions where he wishes or needs them, without being forced into refinements in subjects where he has few books or little interest. The first three figures only may be used as before, and the rest show the scope of the subject. On many topics minute sub-sections are printed simply for this purpose, and for use in indexing periodicals, transactions of societies, and in keeping notes.

The advantage of close classification is unquestiond, if the user knows just what it is. With this plan it is not only practicable, but comparativly easy. If there are only 10 books on a given topic, it is useful to have them in groups among themselves, for otherwise they would have only accidental order, which is of service to no one. A reader wishing a specific book should go, not to the shelves, but to the Author-and-title catalog, where he can find its place quickest. If he wishes a specific subject, he is sent instantly to the exact place by the Subject-Index. If he wishes to study the library's resources at the shelves, he will be *greatly helpt by the most minute classing*. A teacher showing his pupil the material on any subject, if there are only 20 books, would surely put together those covering the same points, if

there are even two. Much more should librarians group closely their greater collections, that readers may gain something of the advantages of an experienced guide.

Thus every specialist has his own special library. If a student of science in general, he is sent to class 5; if his department be zoölogy, his library is 59; if his specialty is shells, he finds all works and references on that subject in library 594. Whether a specialist needs it or not, every subject being a library by itself, shows resources and wants as no catalog can show them. A catalog cannot be made to take satisfactorily the place of handling books themselves. This advantage weighs most in a college or society library, where many go to the shelves; but even if librarians only are admitted, close classification is worth its cost in the added power it gives.

Mnemonics.— Arrangement of heads has been sometimes modified to secure mnemonic aid in numbering and finding books without the Index; thus China has always the number 1. In Ancient History, it has the first section, 931; in Modern History, under Asia, it has 951. Similarly the Indian number is 4; Egyptian, 2; English, 2; German, 3; French, 4; Italian, 5; Spanish, 6; European, 4; Asian, 5; African, 6; North American, 7; South American, 8; and so for all divisions by languages or countries. Italian 5, for instance, is in 035, 055, 065, 450, 850, 945, and many others. This mnemonic principle is specially prominent in Philology and Literature, and their divisions, and in *form* distinctions used in the first nine sections of each class. Philosophy, methods, or theory occurring as a head is always 1; dictionaries and cyclopedias, 3; essays, 4; periodicals, 5; associations, institutions, and societies, 6; education, 7; polygraphy or collections, 8; history, 9. In numerous cases several minor heads are groupt together as Other, always numbered 9.

While Italian is always 5, 5 is by no means always Italian. Grammar is 5, Periodicals are 5, Asia is 5, Oratory is 5, etc. Even were it possible, to limit 5 to Italian would waste numbering material, and results would not justify cost. The purpose is to give practical aid, not to follow a fanciful theory. A cataloger marking a German grammar, remembers that all Philology begins with 4, and, as German is always 3 and grammar 5, he knows the number must be 435. Italian (5), poetry (1), is as plainly 851 with no danger of being mistaken for "poetry of grammar" or "theory of Asia," because the numbers also have that meaning. This feature is an *aid*, not the regular method, and in all doubtful cases one refers at once to index or tables. Suggested difficulties are usually creations of ingenious theorists and not an outgrowth of practical experience in using this plan.

Wherever practicable, this mnemonic principle is used in subdividing sections. 558, Geology of South America, is subdivided by adding the *sections* of 980, History of South America. Geology of Brazil then

must be 558.1: mnemonically, the first 5 is the Science number; second 5, Geology; 8, South America; and 1, Brazil. Any library attendant or regular user of the scheme recognizes at a glance 558.1 as Geology of Brazil. This mnemonic feature occurs in several hundred places in the classification, and is of great practical utility in numbering and finding books without catalog or index, and in determining the character of any book simply from its call number. The extent of its use is shown in the four tables appended to the main Index, giving alfabetical lists of (1) subjects, with class number of each, which may be subdivided geografically; (2) form divisions, with the figures to be added in making such division; (3) languages, with their class numbers, which may be further subdivided philologically by adding the figures given in Index table 4; (4) philological divisions, with the figures to be added in subdividing any language in Index table 3.

As in close subdivision, the wish for mnemonic correspondence has never outweighd any claim of greater usefulness. In many cases choice between numbers was hardly perceptible, e. g.: whether in philology the order should be French, Spanish, Italian, or French, Italian, Spanish. In such cases mnemonic numbers were given preference, and 17 years has proved this wisest. Great gain, beside ease of remembering, results from this uniform use of the same numbers with the same meaning whenever a similar division is made. Wherever a division by languages or countries is made, it follows philology or history numbers, and in the tables, the note "Divided like 900" fully takes the place of reprinting all the history subdivisions. This saving justifies use of these numbers in some cases, even where a somewhat different order might seem more nearly fitted to the special case; e. g. in 342 an order which would put the constitutional history of Canada (342.71) and Australia (342.94) next that of England (342.42) would be better adapted to the special case than the actual order which separates them both from England and each other. Still by following the usual "procrustean" numbers, many topics can be subdivided minutely without further study, by simply applying the History or Language subdivisions. A single illustration of the astonishing power this principle gives will suffice, tho there are thousands that might be given: 016 is "Bibliografy of special subjects, divided like the regular classification," therefore by aid of the tables under 581, 016.581974742 readily translates itself to users of the system into "Bibliografy of the flora of Albany co., N. Y." While these 12 figures might never be used, if a specialist wishes minute division, it is ready to his hand, conforms to the Index, and will be clearly understood by any one familiar with the plan. A specialist in such cases would probably adopt a contraction for his long number, and use in full only the minute divisions. See p. 35 for such contractions.

Decimalism.— We have not sacrificed utility in order to force sub-

jects on the decimal procrustean bed. *Decimals have been used as servants, not as masters.* When subjects have been combined or separated into just 10 heads, it has been from no necessity of the scheme, but because it seemd the most useful way, all things considerd. In many cases there were at first only three to seven heads instead of 10; but usually, during three years of testing before first publication, it was found useful to divide some of these heads, and, as it took no added space or labor, there was no objection to it. On the other hand, there were cases where more than 10 heads seemd more natural; and, as any number up to 100 is provided for by adding one decimal place, this was done in most cases. As only 1000 sections were first printed, it was often necessary to put two or more closely allied topics together under the same number, as must still be done whenever a library limits the number of figures used to three; but during the 14 years that the system has been in print, subdivisions have multiplied, till now every important topic has its own special number. The scheme gives us for each topic, as it were, a case of nine pigeon-holes, with a large space at the top; and we use them as every practical business man uses such pigeon-holes about his desk. If, as in 220, there are less than nine main topics, it is often convenient to use the extra spaces for subdivisions. Thus we keep separate, under the Old Testament, the historical, poetical, and profetical books; and under the New Testament, the gospels, epistles, and apocalypse. The spaces are there, and it is convenient to use them,—a reason that experience proves a good answer to the charge of lack of coördination, tho indention and type in the tables make that charge baseless. Then in 280, having more than nine topics,—if we are using only three figures,—we put Congregational in the same space with Presbyterian, and all the little denominations together in the last box, just as the business man puts his papers in his pigeon-holes. If he insisted on having a different case made to order for each use, it would cost over twice as much; he could not group them together or interchange them, and they would not fit the shelves of his office as now.

There has been a perverse misapprehension of this feature, and critics oftenest stumble over "procrustean 10." In fact, this is an element of usefulness. A railroad also has the fault that it is procrustean in its path and in its times. It cannot come to your door nor wait your convenience, as did the stage-coach or carriage; it cannot go to the fields for its loads of produce; it cannot turn out for obstacles; and it is simply because it is procrustean that it can do its work so much better and quicker and cheaper. The parallel could be fairly extended to many other cases, but any thoughtful mind will recognize that the economy and ease of working the Decimal system are dependent on its being procrustean. Without it we should lose the great simplicity of the Relativ Index, many mnemonic correspondences, and the useful

0 to indicate form and period divisions. Our intersecting lines of space and time in History, etc., of language and form in Literature and Philology, and scores of similar advantages, depend wholly on procrustean 10, or else on some other number equally procrustean, but lacking the advantages of exact correspondence to our arithmetic.

Relativ location.—Economy and simplicity called not only for the Subject Index, but also for some plan of consolidating the two sets of marks heretofore used; the one telling of what subject a book treats, the other where the book was shelvd. By relativ location and decimal class numbers we have made our simple Arabic numbers tell of each book and pamflet, both *what* it is, and *where* it is.

In arranging books on the shelves, absolute location by shelf and book number is wholly abandond, relativ location by class and book number being one of the most valuable features of the plan. Accompanying the class number is the book number, which prevents confusion of different books on the same subject.[1] In finding books, the printed numbers on the backs are followd, the upper being the class and the lower the book number. The class is found in its numerical order among the classes, just as the shelf is found in the ordinary system. Shelves are not numberd, as increase of different departments, opening of new rooms, and any arrangement of classes to bring books most circulated nearest the delivery desk, will at different times bring different class numbers on any given shelf. New books, as receivd, are numberd and put in place, in the same way that new titles are added to the card catalog.

Thus all the books on any given subject are found standing together, and no additions or changes ever separate them. Not only are all the books on the subject sought found together, but the most nearly allied subjects precede and follow, they in turn being preceded and followd by other allied subjects as far as practicable. Readers not having access to the shelves find short titles arranged in the same order in the shelf list, and full titles, imprints, subject and cross references, notes, etc., in the subject catalog.

Parts of sets, and books on the same or allied subjects, are never separated as they are sure to be, sooner or later, in every library arranged on the common plan, unless it be frequently re-arranged and recatalogd. The great expense of this makes it impracticable except for a few wealthy libraries. In this system both class and book numbers remain unchanged thru all changes of shelving, buildings, or arrangement.

Among hundreds of points raisd by librarians as to its practical workings and usefulness, the only one in which it was not shown to be equal or superior to the old systems was that in this relativ location a

[1] For suggestions regarding forms of book numbers best used with this scheme of classification, see p. 30.

book which this year stands, e. g. at the end of a certain shelf, may not be on that shelf at all another year, because of uneven growth of the parts of the library. This slight objection, however, inheres in any system where books are arranged by subjects, rather than by shelves, windows, doors, and similar non-intellectual distinctions.

Sizes on shelves.— Most libraries have abandond close distinction of sizes. It is true that this distinction saves a little space, but at far too great a cost; for every distinction of sizes makes a parallel classification. If books are groupt in five sizes, one must look in five places before he can be sure of having seen all the books.

It is better to shelve octavos and all smaller books together in one series, and arrange in parallel libraries only quartos and folios, which are too large to stand on the regular shelves, showing the series in which any oversize book is put by a size letter prefixt to the book number; e. g. 749 qA, to show that book A on Artistic furniture is too large for the regular shelves, and so is placed in the q or quarto series. Another way is to use a wood or pasteboard dummy, to show the location of a book not in its regular place. But, however solvd, there is no conflict between the size problem and the Decimal Classification.

CATALOGS

Any system of catalogs may be used with this scheme. But the two essentials of even the simplest system are the author (or preferably name) catalog and the shelf list. The chief use of the system for catalogs is for the latter and for the clast catalog on cards.

Name catalog.— In the name catalog on cards, arranged strictly by names of authors and of persons or places written about, the class number holds a subordinate place, yet is constantly useful. If printed, it appears in a single colum as in the Relativ Index, and, where there is no subject catalog, one can rapidly pick out the books on any desired topic by glancing down the colum for the class number wanted.

Shelf list.— In the shelf list the class number is again highly important, as it makes of the list the most useful form of brief subject catalog. Each page gives in colums accession number, author's name, and brief title of every book in the library on the specific subject bearing that class number.

Subject catalog.— In the card catalog of subjects the classification is mapt out above the cards by projecting guides, making reference almost instantaneous. Subjects are arranged in the 1, 2, 3 order of their decimal subject numbers exactly as in the classification tables, and the cards of each subject are then further arranged alfabetically by authors.

The printed subject catalog on this plan is also the most compact and satisfactory in use. Under each class number are given the resources of the library on that subject, the heading giving for convenience the name as well as the number of the subject; e. g. "513 Geometry." General notes are printed in finer type under general heads, and an index at the end shows where to open the book to find any topic. As class numbers are put in place of page numbers, this index serves for any catalog, list or library arranged on this plan.

Dictionary catalog.— While it is as easy to use the dictionary catalog with this system as with any other, we find the common dictionary catalog inferior to the clast, for nearly all practical purposes. The dictionary plan, if used in a catalog, must give results very unsatisfactory to students, or else very expensiv to makers.

The failure of the dictionary catalog to meet the requirements of the scholar has been often pointed out. While it is far the best for an index, there still exists much of the same need of a good clast catalog as at the first. But the difficulties in the way both in making and using such a catalog have heretofore been so great that there has been a conviction among many practical librarians that notwithstanding its great advantages, the idea must be abandond as impracticable, while other eminent authorities have ably argued that the poorest clast catalog is better than one unclast, and that any use of such a catalog is in itself a lesson in bibliografy. Now that the serious difficulties of making a good clast catalog have been so largely removed by the simple numbers and Relativ Index of the decimal plan, the merits of the clast over the more common dictionary system are becoming doubly prominent.

The Subject Index of this system is a skeleton dictionary catalog, covering everything not fully covered by the "name catalog." Instead of giving the book titles under each head, the number refers to all those titles simply and directly. The index may be made on any of the various dictionary plans, with all the advantages it may possess. To us the simplest seemd the best. We give only short headings with a brief indication in doubtful cases of the point of view taken in assigning the class number.

We therefore unite the advantages of the dictionary and clast catalogs, not by mingling them together, and so losing much of the simplicity of one and as much of the excellence of the other, but by really using both, each with its own merits. Only one set of titles is needed, for the class numbers make them available for both catalogs.

ADVANTAGES

Shelves.— The system on the shelves is the simplest form of relativ location. Many libraries have adopted it for shelf arrangment, where catalogs recently printed, or large investment in another plan, made it too expensiv to change anything else. The advantages here have been already mentiond under Relativ location, p. 19.

Shelf list.— By simply printing the shelf list at any time, a subject class list of the best kind is made for any topic on which there may be

present interest; e. g. if a town contemplates a new water supply, interest is greatly stimulated, and everything about water-works is wanted. The librarian has only to open his shelf list to 628.1 and 352.6 and print it. This great advantage is gaind with but slight variation from the form found best in its regular use as a shelf list for yearly examination of the shelves to detect losses and misplacements.

Accession book.— From the accession book, tables of the number of books added on each subject are readily made from the shelf mark colums. A glance at it shows the character, by subjects, of the books added during any given period, for, wherever this class number occurs, it tells not only where the book is shelvd but also what it is about.

Pamflets.— These class numbers applied to pamflets have proved specially satisfactory. The number is written on the upper left corner, and the pamflets are shelvd in pamflet cases side by side with books on the same subject, or they may be kept on special shelves divided every 10 cm. by perpendicular partitions. Little expense is incurd, and yet the entire pamflet resources of the library on any subject can be produced almost instantly. The immense advantages of this plan over those in common use, both in economy and usefulness, will be appreciated by every librarian in charge of a pamflet collection. A name or author catalog is made on slips if time allows. The pamflets themselves are the best subject catalog. Uncatalogd pamflets treating of any subject bear the same class number, and are arranged on the shelves in a case immediately before or after the books of each section, or, if preferd, each pamflet may be put in exact place as if bound.

The tendency grows to put all material under its class number on the regular shelves, for the same reasons that have led to giving up division by size of books. One examining a subject likes to see all the resources in one place so far as possible.

Sale duplicates.— The same arrangement is admirable here. They are so constantly changing that a catalog can hardly be afforded, and a subject arrangement on any other plan than this is difficult to maintain. Still, it is very essential that there be some means of knowing what duplicates there are on any given subject. By simply penciling the class number on the books and arranging them numerically, it is possible to give this information more quickly and more satisfactorily than by any other method, and at the same time with less expense.

Charging system.— Here as elsewhere it serves all ordinary purposes, with special advantages of its own. On the library accounts the character of each person's reading is clearly indicated by the numbers charged, and minutest statistics of circulation in any subject are made by simply counting the call slips in the register or check box, and entering the number against each class in the record. The whereabouts of any book wanted, or the amount of use of any subject, is seen at a glance. This decimal check box can be used in any system. Its

peculiar advantage with this classification is that it always exhibits, correct to the hour, a complete table of all books off the shelves in each subject. The slips in box 53 show just how many and what books are out in Physics; the slips under 823 show all the English novels in circulation, and who have them. Such a table of circulation always at hand, and without an item of expense or labor,— for the check box is necessary as a record of loans,— is highly prized by all interested in the character of books read, and at no time has so much wise attention been given to educating the taste of readers in our public libraries as at the present. To convert this table into permanent statistics involves only the trifling labor of recording as often as desired.

Subject references.— In no place are the peculiar advantages felt more than here. Many users of the system are undertaking analyses and cross references to an extent not hitherto thought practicable or hardly possible. These few figures tell as clearly as a long heading exactly what the reference is, while the gain in ease of use is even greater than the time and space saved in recording. The clearness and directness of the method aid wonderfully in this work. References to transactions, or chapters in essays, may be made in the most compact and usable form.

Recataloging.— When Amherst College in 1873 adopted the plan, and began to recatalog its library, it was found entirely practicable to make the change to the new system gradually, as means allowd, without interfering in any appreciable degree with the circulation of the books. The methods employd for thus changing without interrupting use must vary according to the different conditions of each case. The essential feature is some distinction between old and new call-numbers, sufficiently markt to be easily recognized by attendants. Since call-numbers ordinarily consist wholly of figures, the initial letter of the Cutter author-numbers furnishes this requisit. All numbers consisting of figures only are then recognized as belonging to the old, and all numbers containing a letter as belonging to the new system.

Adaptability.— The system is so flexible that it adapts itself to almost any circumstances. It may be used in almost any one of its applications without the others, and with a proportionate result. It may be applied to pamflets alone, bringing order out of chaos, and solving this vext and vexing problem; or it may be used for the catalogs, leaving the arrangement on the shelves as before; or it may be applied to the shelves, while the catalog is on the dictionary or any other plan, and so on.

Arabic numerals.— Arabic numerals can be written and found quicker, and with less danger of confusion or mistake, than any other symbols. Therefore, Roman numerals, capitals and small letters, and similar symbols usually found in systems of classification, are entirely discarded, and by exclusiv use of Arabic numerals thruout the shelves,

indexes, catalogs, and records, there is secured the greatest accuracy, economy, and convenience. This advantage is specially prominent in comparison with systems where the name of the author or the title must be written, in calling for or charging books and in making references.

Endowment of special departments.— Another great advantage of this plan is its peculiar adaptability to the plan of endowing special departments. One specially interested in any subject can often be induced to endow that subject with a sum, of which the income shall each year buy all the best books that appear on it.

If John Doe is specially interested in the opera, the library says to him: "Give us $1000 as an endowment of 782, and we will call it the Doe Library of Dramatic Music. There will be found every book, pamflet, newspaper clipping, or ms. that the library has or can get on this subject. Gifts from others will be placed in the Doe Library, the donor's name being given on the book-plate, and for generations to come every person interested in the opera will be grateful for your foundation." In this way 782 is assignd to John Doe, and his pride is stimulated in developing it. If another man with larger means and interest will endow the whole subject of music 780, there is no difficulty or impropriety in including 782, the Doe Dramatic Music Library as the second section of 780, the Roe Music Library.

This is one of the most promising fields for development, for almost every library has among its readers some specially interested, who if properly approacht would endow some topic, even if a small one, and this relativ location, with its definit number expressing just the ground coverd, may be of great service in working up this plan of special endowments.

Summary.— The claims of the system may be sumd up as follows: Compared with other systems it is less expensiv; more easily understood, remembered, and used; practical rather than theoretical; brief and familiar in its nomenclature; best for arranging pamflets, sale duplicates, and notes, and for indexing; susceptible of partial and gradual adoption without confusion; more convenient in keeping statistics and checks for books off the shelves; the most satisfactory adaptation of the card catalog principle to the shelves. It requires less space to shelve the books; uses simpler symbols and fewer of them; can be expanded, without limit and without confusion or waste of labor, in both catalogs and on shelves or in catalogs alone; checks more thuroly and conveniently against mistakes; admits more readily numerous cross references; is unchangeable in its call numbers, and so gives them in all places where needed, as given in no other system; in its index affords an answer to the greatest objection to clast catalogs, and is the first satisfactory union of the advantages of the clast and dictionary system.

SUGGESTIONS TO USERS

In referring to tables, hold the book in the right hand and turn with the left, then the class numbers show very plainly on the left margin and reference is greatly expedited. Some prefer to hold the book in the left hand, but in any case the eye should follow the left pages wholly.

PLAN OF BOOK

Tables.— The first page of tables shows the 10 classes into which all topics are divided. The next page, showing the nine divisions of each of the 10 classes, is a bird's-eye view of the whole scheme on a single page. Then follows a synoptic view of 10 pages, one for each class, showing the nine sections of each division of each class.

Following these synopses is the complete classification, which repeats in proper order classes, divisions, and sections, with all their subsections. For the convenience of the user, who thus gets a fuller and clearer idea of the field which each number covers, synonymous terms, examples, brief notes, dates, and various catch-words are often added to the main heads. Therefore all references to numbers **should be lookt up in the full tables** of subsections, using the summaries when only a synoptic view is wanted.

Index.— Next is an alfabetical index of all the heads, referring by class number to the exact place of each in the preceding tables. This Index includes also, as far as found, all synonyms or alternativ names for heads, and any other entries that seemd likely to help a reader find his subject readily. Tho the user knows just where to turn to his subject in the tables, if he consults the Index, he may be sent also to other allied subjects, where he will find valuable matter which he might otherwise overlook.

Numeration.— In thinking or speaking of the class numbers, to avoid confusion **always divide at the decimal point, and name it**; e. g. read 942.27 "nine forty-two, point twenty-seven," never "ninety-four two twenty-seven." If "point" were omitted, the ear might readily interpret 270.2 as 272, while "two seventy, point two" can never be misunderstood.

USE OF TABLES AND INDEX

Familiarity with classification.— Get a general knowledge of the scheme by learning the 10 main classes [you will soon know the 100 divisions also without special study], so that you can tell to what subject a given number belongs from its first figure without referring to the tables. Specific knowledge of minute divisions will come gradually, but rapidly, from use. Using the tables alone, and then always verifying your result by the Index, you will more rapidly acquire knowledge of the classification and facility in its use. To do this, decide first to which of the 10 classes the subject belongs; next, take that class as if

there were no other, and decide to which of its 10 divisions the subject belongs; then, in the same way, select section and subsection, thus running down your topic in its grooves, which become tenfold narrower at each step. **As a check against error, use the index freely, even** tho familiar with the scheme.

Subject of a book.— To find out the subject of a book consult : —

1. **The title,** since it is generally chosen to show what the book is about. But as many titles are misleading, never class from title alone, but always examin also

2. **Table of contents,** which is the best guide to the true subject. If there is no table of contents read

3. **Headings of chapters,** or marginal topics.

4. **Preface.**— Unless already certain, glance thru this to catch the author's point of view, and verify impressions gaind from title and contents.

5. **Reference books.** — If preceding means fail, consult reliable bibliografies, clast and annotated catalogs, biografical dictionaries, histories of literature, cyclopedias, reviews, etc., for information about the character of the book.

6. **Subject-matter.**— If the five shorter methods above fail, examine the subject-matter of the book itself, and if still in doubt, to avoid mistakes, put aside on an "under consideration" shelf till you can examin more thuroly or consult

7. **Specialists.**— Experts, competent to define their true subject and relation, are usually glad to examin enough to class any new books in their departments. Old ones they know where to put already.

After deciding what the book is about, find this subject in the tables, either thru the Index or by using the tables directly, which for the beginner is a longer process, seldom to be trusted without subsequent reference to the Index; e. g. *Pollock's Land laws* might naturally be clast from the tables alone as "333, Land; ownership; rights; rent," which seems exactly to fit this book. The Index, however, shows two numbers, both referring to land laws, but from different points of view; viz. 347.2, legal, and 333, economic. The object of this book, as seen in the preface, is to give a popular presentation of English statutes pertaining to landholding, not to discuss the history and theory of land laws from the economist's point of view; and it should be clast "347.2, Realty," which might have been mist but for the Index.

Assigning class numbers.— 1. Practical usefulness is the chief thing. Put each book under the subject to the student of which it is most useful, unless local reasons "attract" it to a place still more useful in your library. See p. 27[9].

2. The *content* or the real subject of which a book treats, and not the *form* or the accidental wording of the title, determines its place.

Following this rule, put a philosophy of art with Art, not with Philosophy; a history of mathematics with Mathematics, not with History; for philosophy or history is simply the *form* which these books have taken. Their true content or subject is Art or Mathematics, and to the student of these subjects they are most useful.

3. Always remember that the question is not where one would probably look to find a particular book, but under what subject is the book of greatest value; e. g. it is of little consequence whether "one would be apt to look" under 595.1 for *Darwin's Formation of vegetable mould*, but of much consequence that one studying earth-worms should find that book in 595.1 Worms, since it is chiefly valuable as a study of the habits of earth-worms. Any one wanting that special book would look for it in the name catalog under Darwin.

4. Assign every book to the most specific head that will contain it. This will vary in different libraries according to the number of figures used, e. g. the specific head for "compulsory vaccination" is 614.4738; but in a library using only three figures, the most specific number possible is 614, which must take everything on Public health.

A library recently adopted the plan of putting all books of a division together, if they had but few; e. g. all mathematical works were markt 510. It took just as many figures, cost just as much labor in most cases, and, if a man wanted the one calculus in the whole library, he had to search through the 150 volumes in 510, when otherwise he would instantly have found it standing alone as 517. See also "Number of figures in class number," p. 28[7].

5. The predominant tendency or obvious purpose of a book usually decides its class number at once. Still a book often treats of two or more different subjects. In such cases assign it to the place where it will be most useful, and make references under all subordinate subjects. Give these reference numbers both on book plate and subject card, as well as on reference cards.

It is one of the markt advantages of the plan that these references, notes, etc., may be added from time to time as found convenient. It is necessary at first to find only the predominant tendency of the book in order to classify it. Subject references are added whenever found necessary.

Add these numbers indicating more closely the character of the book as rapidly as possible, and invite all specialists to call the librarian's attention to every desirable subject reference noticed in their reading. These numbers take little room, are easily added, and in most cases are very valuable.

6. If two subjects have distinct page limitations, class under the first, and make analytic reference under the second. But if the second is decidedly more important or much greater in bulk, class under that,

with reference under the first. Always put a book under the first subject, unless there is good reason for entering it under another.

7. Consider not only the scope and tendency of each book, but also the nature and specialties of each library.

Any subject of which a library makes a specialty naturally "attracts" allied subjects. This influence is strongest in minute classification. To admit this variation, many subjects in the present scheme have two or more places, according to these different sides; e. g. a book on "school hygiene," which a medical library puts under 613, has also a place in 371.7, where the educational specialist requires it.

8. If a book treats of a majority of the sections of any division, give it the division number, instead of the most important section number with subject references. Unless some one section is so prominently treated as to warrant placing the book in it, class a book on four or more sections under the division number; e. g. class a volume on light, heat, and sound, under the head most fully discust, and refer to it from the others; but if it treats also of mechanics, hydrostatics, and pneumatics, class as 530, or general physics, tho no mention be made of electricity, magnetism, or molecular physics.

9. To secure uniformity, make for future reference full notes of all difficulties and decisions; for it is of more importance to put books on the same subject together than to put them in the absolutely correct place.

These notes should be written either on the broad margins of the classification tables, or on an interleavd copy, or on P slips arranged by class numbers, like the clast catalog.

10. Keep collected works, libraries, etc., together, and assign like individual books to the most specific head that will contain them; or assign to the most prominent of the various subjects on which they treat, with subject references from the others; or separate and class the parts as independent works.

This last practice constantly grows in favor, and many librarians now largely disregard uniform bindings and "series" lettering, and, unless contents of volumes are so connected that they cannot be separated, class each under the most specific head that will contain it.

11. Class translations, reviews, keys, analyses, answers, and other books about specific books with the original book, as being there most useful.

Number of figures used in class number.— Decide this according to circumstances in each library. Small libraries often use the minute subsections beyond three figures only in certain divisions like Travel, 913–919 (where a closer geografical division is needed) and where a fourth figure is necessary in 400 and 800 to separate different languages.

In very small collections two figures might do till growth required further division; but it is economy, and saves handling the books a

second time to use at least three figures at first, even in the smallest collection. In larger or rapidly growing libraries all subdivisions may be used for the same reason, tho the number of books may not at the time seem to justify it. Whether there are one or 1,000 books on any topic, they take no more space on the shelves if clast minutely, and the work is done once for all. When large accessions come, even if a century later, this number will not have to be alterd. A library having but 20 books on Education might think it unwise to use the full scheme, but the whole 20 would go on a single shelf, and take no more room, and the Index would refer more accurately to what was wanted. The number of books you have on any subject has in this system no special weight. In a relativ location, any number of consecutiv topics without a book waste no space on shelvs or in catalogs. The numbers are merely skipt. This plan not only does no harm, but has the considerable negativ value that looking for the number and finding it blank or skipt, shows that you have nothing on the subject, —a piece of information second in value only to finding something, for one need no longer search.

The practical objection to close classing is that it gives a longer number to charge in a lending library. In a reference library full subsections should be used. Where a short number is imperativ, it is well to give the full class number on another part of the book plate, not to be used in charging, but as a guide to the contents of the book. Thus when the classifier has once examind a book, and found out just what it is about, the record is preservd for the benefit of others.

BUILDING NUMBERS

Geografical divisions.—In dividing by countries according to the note "Divided like 930–99," found so often in the tables, add only the number following initial 9, for this 9 means not locality but simply class 9, History; c. g. 942, history of England, analyzd is 9, history, 42, England (4 Europe, 2 England). If geology of England is wanted, add to 55 (the number for geology) 42 (the number for England), and you have 554.2. History of N. Y. state is 974.7, of which 747 is the locality number, and the number for N. Y. state administration, 353.9747, is built up by adding to 353.9 (the number for State administration) 747 (the number for N. Y. state).

Language and literature.— In 890, where the direction is to "divide like 490," note that 890, Minor literatures, and 490, Minor languages, correspond exactly, so that only the figures following 49 are to be added to 89 to build a minor literature number; e. g. Polish language is 491.85; adding 185 to 89, Minor literatures, gives 891.85 Polish literature. In brief, to form literature from philology numbers substitute 8

in place of the first figure 4; e. g. Sanskrit language 491.2, Sanskrit literature 891.2.

If the direction is to "divide like the main classification," as in 016, the number for the required subject is added exactly as it stands in the tables; e. g. bibliografy of Polish poetry, 016.891851.

Combining numbers in a way not printed in the tables must be done with great care or confusion results. Many users, fascinated with the possibilities of the system, make combinations more ingenious than useful; e. g. "the horse's foot and how to shoe it" was recently markt 636.1682, i. e. the blacksmithing number, 682, being added to the horse number, 636.1, making a very long, useless number. Horse-shoeing is now added to the tables as 682.1. Often it seems well to the classifier to add a figure to show some distinction. It is short and desirable, but later he may find he has shut himself off from using some other division which he would greatly prefer. Every added figure must be clearly written in the tables and index, for no man's memory can be trusted. See 9, p. 28; and Cautions, p. 31.

BOOK NUMBERS

Author numbers.—The invention of translation systems by which a name is represented by its initial with the rest translated into numbers, — e. g. Freeman, F 87,—has led most libraries to arrange books under each class number alfabetically by authors, or in local history by towns, or in biografy by biografees. This keeps all works by the same author together, and in large classes enables one to find any book readily without consulting catalogs. One great advantage is that the same author has the same book number in every subject; i. e. the figures are significant like our class numbers, and translate themselves into the name. Great practical mnemonic convenience results from this peculiar form of book number. By far the most widely used of these translation systems is that of the Boston Athenæum, devised by the librarian, C: A. Cutter, and known as the Cutter numbers.

Time numbers.—A second arrangement of books under class numbers is chronological by dates of first publication. Its advantage is in presenting the historical development of the subject, the book written earliest being on the left, the latest work on the right, and then of any given book it is evident that all those on the left were written before it, all those on the right after it. In science this has special value, while in literature the author arrangement is better. A translation system of dates devised by W. S. Biscoe, makes the numbering of the year more compact and satisfactory than to write the date in full.[1]

[1] For full explanations and table of Biscoe numbers see p. 789-90

Accession order.—A third arrangement—simpler but otherwise less desirable—is in order of accession; the first book in a class being 1, the second 2, the third 3.

It is entirely practicable to use two or even all three of these methods at the same time in the same library, one peculiarity of the system being the ease with which it may be adapted to almost any special circumstances. In fact, we use the chronological system in science where its advantages are most markt; the alfabetical system in literature where authors' names outrank dates; the old accession-order plan in special collections, which must be kept separate, and are no longer added to, since here the extreme simplicity of the 1, 2, 3 order is secured without any sacrifice. It is still better, if this last method is used, to number A, B, C, instead of 1, 2, 3, as 26 instead of nine books may be markt with one character, and chiefly, as it is highly desirable that each book number should begin with a letter which cannot be mistaken for the end of a class number, if the two are written on one line; e. g. the first book under 513, if numberd 1, might be so written as to confuse with subsection 513.1, but 513A could not be misinterpreted. If figures are used, care must be taken to write them as a fraction or with a mark of separation; e. g. $5\frac{13}{1}$ or 513–1.

VARIATIONS PRACTICABLE IN ADJUSTING TO SPECIAL LOCAL REQUIREMENTS

Some users assume that adoption of the Decimal Classification and Relativ Index carries with it other parts of the system which the author has used at Amherst, Wellesley, or Columbia colleges or in the New York State Library. In fact, the plan in each of these libraries differs somewhat from all the others, and many of the 200 public and private libraries now using the plan have adopted still other variations; for the special constituency, circumstances, and resources of each library must be considerd in deciding what is best for it. This decision should be made by one familiar, not only with the library and its needs, but also with all methods of any merit and the comparativ ease and cost of introducing them into any given library.

Cautions.—Having decided to adopt the system in its decimal form as workt out and printed, it must be determind whether to adopt certain variations, noted in 1–5 below as practicable, and in some cases useful and desirable. The inexperienced user is very likely to feel entirely competent, after once reading the tables (in fact, without reading more than a single page regardless of its bearings on hundreds of other places, and without so much as looking at the author's explanations), to institute a series of "improvements." Experience proves that nothing could be more disastrous. It seems a simple

matter to put a topic a line higher or lower, but in some cases this may affect over 100 different entries in the Index, and there is no possible way to be sure of correcting them except by examining each one of the 20,000 heads. Frequently proposed changes, carefully studied out and submitted as improvements, are shown by our old records to have been adopted and used in the exact form proposed till considerations which had not been foreseen forced us to change to the form as printed. Even after years of experience one is not safe in pronouncing on an apparent improvement without consulting the voluminous records of previous experiments.

Those who have used the system longest have been misled into adopting changes which on trial they were compeld to reject, going back to the original form at the cost and confusion of two changes. In so apparently simple a thing as introducing subdivisions on blank numbers, mistakes have often been made ; and after it was too late to correct them the makers have regretted their neglect to consult the author and secure the advice and coöperation of those most familiar with the manifold inter-relations. Even were the independent divisions equally good, their numbers do not agree with those which will be put in the printed tables and index, so that every copy of the printed scheme will have to be corrected in ms. before it is usable in that library. The only safe rule is to make no changes or subdivisions without submitting them to the author, who will gladly advise on such matters without charge, not on the ground of any superior wisdom, nor even because of larger experience in this special work, but because in this way only can it be learnd if numbers have been already assignd with different meanings.

The user who adopts the printed form avoids the criticism sure to be aimd at any possible scheme. The moment he makes one "improvement" he must defend all the heads or alter them to suit each critic. Much time is saved by saying that the scheme is used as printed, and blunders are the author's, not the user's. A list of changes that have been made by others without such consultation was written for this note, but is omitted lest it should seem invidious. They illustrate how easy it is for able men to make what no one questions after explanation to have been outright blunders, in improving and adding to the printed scheme. The author is always grateful for suggestions from any one, and, having already given so much time in the effort to improve this system for the common good of all users, he invites the coöperation of those interested in completing needed subdivisions and eliminating any errors that may remain either in tables or index.

The following brief notes show the most important variations found practicable in the " relativ index system," oftener called the " Dewey system." For its essentials see p. 87-9.

1. Letter notations for changes.— To protect other users from confusion, the publishers insist, as the copyright entitles them to, that our numbers shall not be printed with changed meanings without some clear indication of the fact in the number itself. If the reasons that led us to adopt the form printed are not conclusiv to another, we wish to remove any obstacles to his use of the system with such changes as shall satisfy him. This can be readily done by using a letter, or some other character than the 10 digits, to mark changes ; e. g., if you wish a different set of subdivisions under any number, make it out to suit, and number it a, b, c, etc. It will arrange in its exact place and exact order without difficulty, and no other user of the system will be confused by the numbers. In the index, cancel the 1, 2, 3, etc., you have discarded, and write in the a, b, c, etc., adopted. **Whenever you use our exact numbers, use also our meanings for them as indext.** When you add any features of your own, add new numbers of your own that cannot be mistaken for ours, using, of course, as many of our figures as are not changed ; e. g., if you want a new heading next to 551.34, Icebergs, it cannot properly go as decimal 1. Mark it 551.34a, and it arranges as wisht. If you wish to change a head from one place to another, cancel it where it stands, and *leave that number blank* in the tables. Then insert the head in its new place as above, as if it had never been in the tables.

This plan of introducing letters or other symbols wherever each user pleases, will give all needed freedom to the personal equation and desire for originality, and meets all real wants for peculiar classification in peculiar cases.

Fiction and juvenils.— In some cases it is usually best to modify class numbers by letters as above. In popular libraries half of the circulation is often in fiction. A great saving is effected here by omitting the class number entirely and using merely the book number, it being understood that *no* class number means fiction. After fiction, their great circulation makes juvenils a good place to economize, if they are kept separate, as is usually thought desirable in popular libraries. The books are clast exactly as if for adults, then a J is prefixt to show their special character. This gives J alone as the class number for juvenil fiction, and e. g., J942, for a child's history of England. These are arranged in a parallel library by themselves, so that J942 comes between J941, juvenil history of Scotland, and J943, juvenil history of Germany.

If at any time it seems desirable to abandon the separate J library, it can be done, without altering a number, by distributing the J books among the regular classes, either ignoring the J entirely, or preferably by putting all the J books by themselves at the end of each class number.

There are thus three methods: 1, to have a separate J library; 2, to have the J books by themselves at the end of each class number; 3,

to have the J books in alfabetical order among other books on the same subject. In this last case the J is useful only to call attention plainly to their juvenil character.

The same marking is used for all these plans, and one can be changed into the other by simply distributing the books the other way, and telling the attendants that it has been done. Juvenil books go with adult books of the same class, unless a special J library is made, containing all juvenils.

Biografy.— A similar plan is recommended for this large class, as to the best treatment of which there is great difference of opinion.

Beside the plan printed in the tables, two others are recommended, viz.; to put all biografics in one alfabet of names of *persons written about*, marking all the books simply B for class number, and indicating the subject or biografee by a Cutter book number; e. g. life of Grant, B G76. This is most compact for charging, and is preferd in popular libraries of large circulation.

The third plan is to distribute biografy as far as possible to the subjects it illustrates, leaving, of course, under 920 lives not bearing specially on any subject; e. g. all lives of musicians go under 780 and its subdivisions, the life of Wagner being 782.2 instead of 927.82 as in the tables. Even in this arrangement it is better to indicate that it is biografy, putting B in place of the biografy figures 92; i. e. mark Wagner's life B782.2 (927.822). Then it arranges either with 782.2 or with biografy, as preferd, thus giving exactly the arrangement of the printed classification without changing a figure.

Travel.— By using T instead of B, the same principle gives a brief call number for the largely circulated class, description and travel.

Parallel libraries.— This treatment of fiction, juvenils, and biografy illustrates the principle. Its other chief application is for language collections. Some libraries have a constituency not reading English, and so need a parallel library in German, or Swedish, or French, etc. This is most easily made by simply prefixing an initial to the class number. If to be arranged, as with us, in one series of subjects, this may be ignored, or all German books on each subject may be groupt under G at the end of each class number. The German parallel library is made by simply putting all G's together and arranging by class numbers. The initials used are G, German, F, French, I, Italian, Sp, Spanish, Sw, Swedish, Dn, Danish, Du, Dutch, N, Norwegian, R, Russian, W, Welsh, A, Arabic, etc. Where only one language is so markt in a given library, only one letter should be used, so as to avoid an extra letter in charging; e. g. S will answer either for Spanish or Swedish if used in only one sense. This plan has proved very satisfactory in actual use.

Combining language and literature.— The same principle can be applied also in combining each language with its literature, if it is

preferred to abolish the class, Philology, and make it simply an appendix to Literature; and the reverse would hold true if a philologist wisht to abolish Literature and make it an appendix to Philology; e. g. using 82p for English philology, and adding philology subdivisions, English dictionaries would become 82p3, English grammars 82p5, etc., and arrange either just before (or just after) English literature, 820, 821, etc. For a better plan see Broken order, p. 36^7–37^4.

Reference library.— To separate books most needed, the best plan is to mark R before class numbers, and arrange the books together, as an R library. When the books are to go into the general collection again, a line can be drawn thru this letter. In the same way it often happens that a general private library is given on condition that it be kept together; e. g. the Phœnix library of Columbia College. This has P prefixt to the class number, and thus is a parallel library by itself. An initial is better in such cases than a * or similar mark, since the initial helps the memory and is just as brief. The same plan applies of course if the library has an "inferno" for books not used without permits, or more distant rooms where books worth keeping but seldom called for can be arranged in a parallel storage library.

Still another provision is made in 080, 8 being the regular number for general collections (as in 508, 520.8, etc.), for these special libraries which cannot be separated because of binding or conditions of gift. But instead of the three figures in 080, a single letter, as described above, indicates the special collection, and it is easy to learn the location of the few special collections of any one library. Omission of initial 0 in the class "General works" was formerly recommended; e. g. 51 instead of 051 for an American periodical. But this usage is no longer advised, for the eye gets so in the habit of reading as *Science* any number beginning with 5, that there is a little mental hitch if, e. g., general periodicals are written 51, etc., instead of 051, etc.

Another reason is that the one and two figure numbers 1–99 are thus left available, and can be assignd to special use without confusion with tables or Index, for initial 0 is there printed for all numbers before 100. Yet in classification it sometimes happens that the first two figures are obvious at a glance, but time must be taken to determin the third. It is convenient to write these first figures, but if a mathematical book receives its first two figures (51), this unfinisht number is liable to be confused with the two-figure number 51. This danger may be largely avoided by writing the decimal point after a blank; e. g. 51 ., to snow that a figure is omitted.

2. **Contractions for specialists.**— The system is often used by specialists for very minute work when the decimals are run out to six or eight places. While the theory is better to write all these figures, thus showing the relation to the universe of knowledge, there is no

practical gain to justify the labor if a great quantity of slips must be numberd. A specialist working on "Swedish poetry of the age of Gustavus" can use a single letter instead of the full 839.715 and save five characters in numbering each note; or a dash may be written for all but the last figure, thus "—5". A body of such notes can be inserted together in their place in an index at 839.715, with a colord card to mark the special groups, with little danger of confusion. Still many prefer the theoretical completeness of writing a full index number for every separate slip.

3. **Use of alfabet or chronology for final subdivisions.**— While our plan is decimal as distinguisht from the "dictionary system," we never hesitate to use the alfabet wherever that is more useful. Indeed, the main feature of our plan is its alfabetical index. Frequently in minute divisions it is economy to arrange alfabetically or by dates without using a translation system. This is specially true in index rerums and notes of specialists. After numbers have been used as far as that is the most useful form, then either the name chosen for the head or the year can be inserted at the end; e. g. towns in a given state, individual birds or insects coming under one number, names of men written about in biografy, etc. Some may prefer to adopt this plan in places where we have chosen a grouping; e. g. in chemistry, to put all the metals in one alfabet under 546.3, instead of using the numbers 546.3–.99. If this change is wisht, a more complete one will probably be better; viz. to put all the elements, non-metallic and metallic, in one alfabet under 546. Such use of the alfabet causes no confusion with the index, as it is simply subdividing more closely, unless, as in the last case (546.3), the alfabet replaces heads already printed. In this case, cancel all subsections in the tables by drawing a line obliquely thru the heads discarded, and mark in the margin "arranged alfabetically by elements," e. g.:—

546.3	**Metals.**	**Arrange metals alfabetically.**
~~·31~~	~~Alkali group.~~	
~~·32~~	~~Potassium.~~	
~~·33~~	~~Sodium.~~	
~~·33~~	~~Lithium.~~	
~~·34~~	~~Rubidium.~~	
~~·35~~	~~Caesium.~~	

Then find each of these heads in the index and cancel all figures after 546.3, e. g.:—

Potassium, inorganic chemistry, ~~546.32~~
Rubidium, " " ~~546.35~~

This plan has special value in this place, as new elements are discoverd from time to time, and can readily be inserted in alfabetic place. Still many chemists think it valuable to have similar metals groupt together for convenience of study, and to cover books written on the group as a whole, and also think it important to have a number

for rejected elements, because the literature and references about them remain, and must be provided for. The insertion of new elements is provided for, as explained on p. 14[4].

4. **Broken order.**— Another common and often desirable variation for shelf arrangement is to break the sequence of the numbers, in order to get books most used nearest the delivery desk. The theory is to keep the whole 1000 numbers in strict sequence; but a higher rule to be obeyed everywhere is to sacrifice any theory for a substantial gain. Practically it will seldom happen that it is not best to break the order of the classes. Often divisions are best arranged out of numerical place; e. g. 520 Astronomy may be wanted in a room accessible at night; fiction, juvenils, and biografy are always wanted near the delivery desk in a public library, and in strict order are as likely to come at the most distant point. Numberless local reasons may make a broken order desirable. There need be no hesitation in adopting it if enough is gaind, but there should be charts clearly showing where each division starts; e. g. after 430 "Preceding 830;" after 520 "In observatory," it being necessary to specify room for books entirely removed from the general library arrangement. The page of 100 divisions is reprinted by the publishers, on cards with wide margins, for just this use. Opposit each division is markt its beginning on the shelves, and it is easy to vary the order as much as necessary, tho of course the nearer the divisions run in regular order 1 to 99, the easier it is for a stranger to find his way about. Variations in the order of the sections are less wise and seldom necessary. If made, a wood or card-board dummy in the regular place should have markt on its side the present location of the section removed.

This broken-order plan is best for bringing together the philology and literature of each language without altering numbers or prefixing any letter. Let 420 be shelvd just ahead of 820, 430 ahead of 830, and so for all languages, making the general note that all 400's are shelvd just ahead of the corresponding 800's, and remembering that after the main languages four or more figures are required to indicate language alone, so that Portuguese philology goes between 868 and 869, Russian between 891.69 and 891.7, and Welsh between 891.65 and 891.66.

5. **Pro and con division of topics.**— It is very useful in many cases to separate the books on a topic with strongly markt sides, so that either set of views and arguments may be seen by itself. This has been done by subdivision in some cases,—e. g. 337, Protection and Free trade. In others it is equally useful, and can be indicated by an added mark,—e. g. 324.3, Woman suffrage. The number may be used for general works, giving facts, etc., and advocates and opponents may be separated by + and — for positiv and negativ, or by p and c, the initials for pro and con, which tho short, are too long for a circulat-

ing library to charge. In reference libraries, on cards, etc., most will prefer to write out *pro* and *con*, to distinguish the two groups. The order on the shelves is, of course, alfabetical, viz. 324.3, 324.3c, 324.3p; or if + and — ar used, the usual order is followed: +, —.

These five notes suggest the range of variations that may be made in the Decimal Classification and illustrate its adaptability to widely different conditions. For book numbers which decide the order of material after it is groupt into its final classes, see page 30.

OTHER USES

Tho the system was devised for library catalog and shelf arrangement, 17 years have developt many new applications. Nearly every administrativ department feels directly the great economy, and in every field of literary activity this classification has been found a labor-saving tool, whose practical usefulness has exceeded the most sanguin hopes of its early friends.

Bookstores.—The plan is a great convenience to both dealers and customers, when applied to the miscellaneous stock of a bookstore. Very often a much wanted book, specially if not recently publisht, is reported "not in stock," when such an arrangement by subjects would have reveald its place at once. Specialists often find on the shelves books that they would never have orderd, but are glad to buy after examination. Experience proves it a profitable thing for a dealer to arrange his books so that each person may find those in which he is interested without examining the entire stock.

Scrap-books.—The plan has proved of great service in preserving newspaper clippings. Scrap-sheets of uniform size are used, with the class number of the subject written in the upper corner of the front edge of the page, and clippings are mounted on the sheet as in a common scrap-book. When one sheet is full, another is inserted at the exact place. Thus perfect classification is kept up without blank sheets, and at the smallest outlay of money and trouble. This "L. B. Scrap Book" is for most persons the best form. These sheets are then arranged numerically like the subject card catalog, the sheets of each class being farther arranged, when desirable, under alfabetic subheads. Scraps thus mounted are shelvd either in manila pamflet cases or in patent binders.

Index rerums.—These are best made on the standard P size (7.5 x 12.5 cm.), card or slip. Long study and experience prove that the stock "L200" is best for private indexes, etc. It costs only half as much as the "Br. 400," which is largely used for public library catalogs, takes only half the room, and gives great satisfaction. The class number is written in the upper left-hand corner, any alfabetic subject head follows at the right, and notes fill the card below. The cards are then filed in order of class numbers like the subject card catalog,

the cards of each class being further arranged, as in case of the scrap sheets, according to any alfabetical subheads. Scores of devices for convenient handling and storage of these slips and of scrap sheets and pamflets are already manufactured. Details cannot be given here, but may be found in the full descriptiv and illustrated catalog of the Library Bureau, 530 Atlantic avenue, Boston.

Another admirable form is similar to the L. B. Scrap Book or shelf list; in fact, is simply a shelf list without the printed headings and down lines. The subject number goes in the upper corner, and all notes on that subject are written on the sheet below. This book fits an ordinary shelf, has the advantage of a full letter page in sight at once, and holds over five times as much as the P card. Of course the system can be applied to slips or sheets of any size, but there are literally hundreds of accessories and conveniences exactly adapted to these two sizes, which are used tenfold more than all others combined; so it is folly for one to begin on another size, and lose the advantages of this uniformity. If intermediate sizes must be had, the ones most used and least objectionable are Billet 10x15 cm., Note 12½ x 20 cm., and Ms. 15 x 25 cm. There are repeated cases where users of some other size have finally found it profitable to change to either the P, 7½ x 12½, or to the L, 20 x 25 cm., even at the cost of re-writing many notes.

Note books are best in this last described form. The much poorer method is to take a bound blank book, and assign the class numbers in order, giving about the space it is thought each will require, and, when the pages so assignd are full, note at the bottom where the rest of the material may be found.

This has all the objections of the old fixt location as compared to the relativ, and will hardly be adopted by any person who has ever seen the simplicity and economy of the shelf-list system.

Topical indexes.—The class numbers are used in indexing books read, usually by making the entries in the Index Rerum under proper numbers. The number takes the place of a series of words, and the results can be handled, arranged, and found much quicker because of the simple numerals.

The advantages that the system possesses for making topical indexes of collected works, periodicals, transactions, etc., will be evident to every librarian. These consolidated indexes may be arranged together with the card catalog of the books, or by themselves, as seems best in each case.

It would exceed the limits of this brief description to notice all the varied applications of the system. Enough have been mentiond to show its wide adaptability to the wants of the librarian and the student.

Tho much elaborated and in some points alterd, the essential character of the plan has remaind unchanged from the first. Doubtless

other improvements are still possible, and users of the scheme are invited to suggest any needed new heads, and to note any omission to be supplied in the Subject Index.

In this brief account the author has probably faild to meet some objections which may be raisd, and which hc could easily answer. He therefore asks the privilege of replying personally to any such objections, where they arise, believing that it will be possible to answer, if not all, at least a very large proportion.

The labor involvd in preparing the Classification and Index has been wholly beyond the appreciation of any who have never attempted a similar task. Much valuable aid has been renderd in many departments by specialists, over 100 of whom have assisted in developing the scheme. Among these are many well-known scholars, and to all a most cordial acknowledgment is made. Without such assistance, the present edition could not have been made, for many minds were necessary to supply the technical and special learning absolutely necessary in filling the minute heads. Indeed, in many subjects the author's share in the work has been limited to the modification necessary for technical adjustment to his scheme of the material prepared by specialists. To many prominent librarians the author is indebted for valuable suggestions and appreciativ criticism. While these friends are in no way responsible for any remaining imperfections, they should have credit for many improvemcnts in the scheme made in these 17 years of revision, during the first three of which it was kept in manuscript, in order that its many details might be subjected to actual trial, and modified where improvement was found possible.

In all the work from its first publication to the present, the most extended and valued assistance has come from my college classmate, associate, and friend, Walter Stanley Biscoe, my first assistant in Amherst College Library, in the charge of which he succeeded me, resigning to accept again in 1883 the place next me in the Columbia College Library, and again resigning in 1889 to become Librarian in charge of Classification and Catalogs in the New York State Library. Of the rare unselfishness with which he has given time taken from rest and recreation to advancing work in which he shared my interest, this book is the best witness.

In his varied reading, correspondence, and conversation on the subject, the author has doubtless receivd suggestions and gaind ideas which it is now impossible for him specifically to acknowledge. The *Nuovo sistema di catalogo bibliografico generale* of Natale Battezzati, of Milan, adopted by the Italian publishers in 1871, tho he has copied nothing from it, more than any other single system stimulated the author's study of the problem. The plan of the St Louis Public School Library and that of the Apprentices' Library of New York, which in some respects resemble his own, were not seen till all the essential

features were decided on, tho not given to the public. In filling the nine classes of the scheme, the inverted Baconian arrangcment of the St Louis Library has been followd. The author has no desire to claim original invcntion for any part of his system where another has been before him, and would most gladly make specific acknowledgment of every aid and suggestion were it in his power to do so.

With these general explanations and acknowledgments he submits the scheme, which has cost so much time and strength, with the hopc that it may prove as useful to others as it has to himself. It is a little book, but it came not forth except by grievous labor.

MELVIL DEWEY

NEW YORK STATE LIBRARY
Dec. 25, 1890

The previous editions have been dated Amherst College Library, June 10, 1876; Columbia College Library, Aug. 10, 1885; and Columbia College Library, Aug. 30, 1888.

EDITION 7

The complete revision in progress involvs many new interrelations. As extensiv advance testing of new schemes is impracticable, it is expected that practical application will develop unnotist faults. Classifiers are therefore requested to use the new tables critically and report defects of any kind, with proposed remedies and any additional needed subdivisions. All such criticisms are a decided help and regarded as a favor.

Minuteness Minute as are many subdivisions, there are none that some have not askt for and almost none that others have not declared needless. Since the degree to which any scheme shall be applied is optional with each classifier and close analysis is useful to everyone in defining content or in clarifying differences between related subjects, even the most elaborate schemes are printed in full if no essential objection has been brought against them by the best qualified critics. Note type is used for topics clearly useful only to specialists or as showing scope. Many others probably belonging in the same category are in the regular type of their grade, if doutful.

Basis of revision After study of all other available systems the *Decimal classification* was adopted in 1895 by the newly organized Institut International de Bibliographie as best adapted to its projected universal subject bibliografy to cover ultimately all subjects in all languages thruout all periods of the world's history.

Determining factors were:

1 The *Decimal classification* was a classification of topics independent of the language or exact synonym by which they were exprest.
2 Its notation was in itself the only international language, since it consisted solely of arabic numerals.
3 Its decimal principle allowd indefinit intercalation.

Overdetaild as the classification alredy seemd to many librarians, lack of subdivision was the Institute's first difficulty and its promoters urged the author at once to enlarge the tables. State library duties at that time made concentration on the classification impossible, but cooperation and criticism were promist if the Institute would draft the required extensions. When its remarkably rapid work precluded even adequate criticism, it was authorized to publish its tables and assured that the American revision would vary from them as little as practicable.

Obviously bibliografic and general library use are so different that in some cases what is clearly best for the real needs of the scholarly specialist, where any symbols can be used on index cards, would be quite impracticable for a public library, which must have symbols that can be gilded on the back of books, redily used by the unskild public in writing call slips, and rapidly handled by low-priced runners and young clerks. Where differences occur between the Institute tables and the 7th edition of the *Decimal classification*, many have been agreed to by the Institute and will appear as here given in its future editions, others are the result of serious objections made to the Institute classification, but with the expectation that agreement will soon be reacht, as it is the purpose of both Institute and author to harmonize the few divergencies as rapidly as possible.

Changed numbers Changes are fewer than anticipated and will be given in detail in the 'List of corrections, changes and minor additions' soon to be maild to all recorded owners of earlier editions. In many cases the changes are only a broadening of terms to meet later developments. Numbers where any change thus far occurs are:

021.1	374.2–4	621.34 *vacant*
.6–7	.7–9	.62–63
339	375.01–04	.88
371.46 *vacant*	378.1	.91
.6–63	.99	.94
.67–68	541.1 *vacant*	.99 *vacant*
.91–97	.3	642
372.1 *vacant*	543.8–9	643
.8	620.1	647

Separates There is growing use by specialists who wish very detaild tables of their subjects, but only so much else as will show the perspectiv of these subjects in the general scheme and provide for broad classification of other material on the same plan. As fast as demand will cover expenses, any subject that has been elaborated will be publisht separately with general explanation, directions for use, 3 figure tables for other subjects, and full index: e. g. normal school libraries specializing on education will want the elaborate new 370 scheme but may not need to carry classification of other subjects beyond 3 figures; electric engineers may have no use for 370, but will need all details of 621.3 with only 3 figures for other subjects.

Bibliografic modifications The Institut International de Bibliographie has devised and uses ingenious symbols, expressing almost any interrelations and greatly increasing numbering capacity. But unfortunately these new symbols are thought by many to be too complex for ordinary shelf or catalog use, tho 10 years use by the Institute with unskild clerks has proved that this objection is more a fear than the result of fair trial. They are given here broadly for personal notes of specialists and other close classifiers, to whom their vast practical advantages will strongly appeal, and as a key to the notation of the Institute's bibliografic cards. Elaborate details and explanations are in the *Classification décimale*, Brussels, 1905. Obviously these symbols allow subdivision of the same number in many different ways without confusion.

1 Accretion sign + This is the simplest of all the symbols and indicates exactly what it suggests, that the article so numberd treats of all the subject numbers connected by +; e. g. 637+614.32 a work concerning dairies and inspection of dairy products.

2 Coupling sign - This is used for coupling to a subject a series of subdivisions belonging to another number, but only where notes in the tables allow it, as confusion would otherwise result. As this is our sign for "to and including," use of it in the Institute sense requires substitution of "to" for it in our sense.

3 Relation sign : This is the most useful symbol of all, as it involvs no change of number except omission of final 0 by those preferring the shortest form. It indicates merely that the subjects so connected are considerd in relation to each other, thus affording means of expressing almost limitless interrelations: e. g. ethics in relation to fine arts is 17:7 (or in full 170:700). Vice versa, art in its ethical aspect is 7:17; the order of the numbers before and after the colon being dependent on emphasis or on subject with which they are to be arranged.

4 Form sign (0) Form or generalities are exprest by a parenthetic number beginning with 0. This is farther subdivided as follows:
(0:) Form symbol: e. g. 335 (0:843) means Socialism treated in the form of a French novel.

(00) Subdivisions peculiar to a subject; e. g. for history it means sources. It is farther subdivided and in some cases modified by a hyfend figure; e. g. 9(44)(001-3) means *Catalog* of *official* sources of French history, (001) meaning official sources and -3 meaning catalogs, indexes, lists, etc. (01)-(09) are the same as our regular form numbers 01-09. Obviously we can not replace our long establisht simple form numbers by something so much more complex that it is impracticable for shelf use.

5 Universality sign ∞ The mathematical sign of infinity is used with any combination of symbols to mean 'Without limitation as to the idea exprest by that symbol.' With place symbol (see 6 below) it means 'including all places': e. g. 9(∞) History of all countries; 9(∞)" ∞" Universal history covering all periods (see 8 below).

6 Place sign (3)-(9) These replace our regular country subdivisions found in 930-999, but do not conflict, as the Institute merely leaves D C 930-999 vacant, and writes History of France 9 (44) insted of 944. Other auxiliary place numbers indicating general region, direction, geologic place, time, etc. are also provided in place curvs.

7 Language sign = This sign preceding language numbers as found in 400 Philology, indicates subdivision by language; e. g. 398.4=9162 means Fairy tales in Irish, 91.62 being the philology number for Irish language in 400.

8 Time sign " " Numbers denoting time subdivision are written in quotation marks. The Institute scheme gives an elaborate system of time subdivisions.

9 General points of view sign 00 Each of the following numbers for point of view has also a series of subdivisions:

001 Speculativ: idea, purpose, plan, etc.
002 Realization: execution, construction, etc.
003 Economic: industrial production, cost and sale prices, etc.
004 Servis and use: workings, administration
005 Equipment and apparatus
006 Bildings and establishments: details of organization and servis
007 Special personnel

10 A to Z alfabetic arrangement by name of person, place or thing is indicated according to circumstances by initial or whole name.

Sequence of these symbols in the class number may be varied by users to produce any special arrangement desired, but unless distinct notis of this is given, the sequence is arbitrary in the following order

(0) " " = : - A-Z

e. g. 91(44)(03)=2 Dictionary of French geografy in English.

Index The relativ index is greatly enlarged both by heds from new tables and by many new references to tables not yet revized, and is consolidated into a single alfabet. It aims as heretofore to include every synonym likely to be sought of subjects exprest or implied in the tables. Insted however of repeating all entries under each synonym as before, it repeats only when there are less than 3 entries; but to save space when more than 3, it gives them as a rule only once and refers from other spellings or synonyms to the one chosen; e. g. Scepticism *see* Skepticism, Refuse *see* Wastes.

Acknowledgments Our greatest indettedness is to the Institut International de Bibliographie for its great volume of valuable work, covering almost the whole range of subjects, which forms the basis of our revision, and also for its advice and criticism during the progress of our work. Among the many friends to whose critical examination and suggestions the makers and users of the *Decimal classification* owe many improvements, preeminent are: R P Bigelow, librarian of Massachusetts Institute of Technology; Dr C V R Bumstead of Newark; Prof. E P Cubberly (Stanford); Prof. Charles DeGarmo (Cornell); Dr John B Roxby of Philadelphia; Prof. E L Thorndike (Columbia); the West Point military academy librarian, Dr Edward S Holden, and faculty; and Captain John Clark Wilson, U S navy.

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Except a year in charge of classification in the Osterhout library, Miss May Seymour has been with me for 24 years, since she entered the first Library school class in 1887. At the New York state library, classification was her department till she was promoted to director's assistant. For the past 22 years every item of work on the new editions has past thru her hands. Her responsibilities as managing editor of the *A L A catalog* of necessity precluded work on the Classification for several years. For this edition she has done all the editorial and much constructiv work, has secured expert cooperation, cald attention to faults or omissions and sought the best available compromizes where doctors disagreed. This supervision will continue, so that future editions will

benefit by the cumulativ experience of the same editor. To this vast labor she devotes rare scholarly industry and a loyalty for which no words of thanks can be adequate. She shares my faith in the immense usefulness of the completed work, is doing nearly all the hardest work and deservs the gratitude of all who profit by this invaluable laborsaver.

MELVIL DEWEY

Lake Placid Club N Y
10 April 1911

INDEX TO INTRODUCTION

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C D means *Classification décimale,* the enlarged French translation of D C.

I I B means Institut International de Bibliographie.

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2 Religion

3 Sociology

4 Philology

5 Natural science

6 Useful arts

7 Fine arts

8 Literature

9 History

LAKE PLACID CLUB
LIBRARY

DIVISIONS

000 General works
- 010 Bibliography
- 020 Library economy
- 030 General cyclopedias
- 040 General collections
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- 060 General societies
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Limited to *none* of the nine classes

000
- 001
- 002
- 003
- 004
- 005
- 006
- 007
- 008
- 009

Left blank for local history or biography, etc. where some special collection is making which is to be kept in a case by itself, out of its regular place in the classification. Individuals use these numbers for personal diaries, note books, memorabilia, etc.

010 Bibliography
- 011 General bibliographies
- 012 Of individual authors
- 013 special classes of authors
- 014 " forms, pseudonyms, etc.
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Left blank to be used (if preferred to prefixing an initial) for general collections of books which by terms of gift or for other cause must be kept together. This must be kept distinct from 040 where the individual books are polygraphic, i. e. are bound pamphlets, essays, addresses, scrap or note books, etc. too general in scope to go under any single class. Juveniles could be put here, but are better kept in a separate class, marked J.

090 Book rarities
- 091 Manuscripts. Autographs.
- 092 Block books
- 093 Early printed. Incunabula
- 094 Rare printing. Privately printed
- 095 Rare binding
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680 Mechanic trades
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740 Drawing. Decoration
741 Freehand. Crayon
742 Perspective
743 Art anatomy. Life school
744 Mathematical drawing
745 Ornamental design. Carpet, etc.
746 Art needlework
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748 Stained and iridescent glass
749 Artistic furniture

750 Painting
751 Materials and methods
752 Color
753 Epic. Mythic. Idealistic
754 Genre. Still life
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756 Historical. Battles, etc
757 Portrait
758 Landscape. Marine
759 Various schools

760 Engraving
761 Wood
762 Copper. Steel
763 Lithography
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766 Mezzotint. Aquatint
767 Etching. Dry point
768 Banknote. Machine
769 Collections of engravings

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771 Photographic chemistry
772 Silver processes, etc.
773 Gelatine and pigment processes
774 " and printer's ink. Albertype
775 Photolithography, etc.
776 Photozincography, etc.
777 Photo-engraving. Photo-electros
778 Special applications
779 Collections of photographs

780 Music
781 Theory
782 Dramatic
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784 Vocal
785 Orchestral
786 Piano and organ
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789 Percussion and mechanical

790 Amusements
791 Public entertainment
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793 Indoor amusements
794 Games of skill. Chess
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796 Outdoor sports
797 Boating and ball
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894 Scythian. Turanian
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968 South Africa
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973 United States
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975 South Atlantic states
976 South Central or Gulf states
977 Northeast Central or Lake "
978 Western or Mountain "
979 Pacific states

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982 Argentina. Patagonia
983 Chile
984 Bolivia
985 Peru
986 Colombia. Ecuador
987 Venezuela
988 Guiana
989 Paraguay. Uruguay

990 Oceanica. Polar regions
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992 Sunda
993 Australasia
994 Australia
995 New Guinea
996 Polynesia
997 Isolated islands
998 Arctic regions
999 Antarctic regions

Complete Tables

INCLUDING ALL THE

SUB-SECTIONS

General works

010 Bibliography.

.1, Theory, Utility, etc.; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6 Societies; .7, Education, Training, see also 020.7; .8, Polygraphy; .9, History.

011 General Bibliographies. Universal Catalogs.

011 is by **Authors.** If by **Subjects** they go in 016.

012-016 include both bibliographies and catalogs. 017-019 is limited to catalogs of general collections.

012 Of Individual Authors.

Alphabeted by bibliographees, not by compilers: e. g. Chaucer, Dante, Ruskin, etc. Authors on whom special collections are being made (e. g. in 800s), attract their bibliographies to same number, leaving only a reference here.

013 Of special classes of authors

Subdivided like the general classification, as indicated below. Lists of writings of such classes, if limited to a special subject, class with that subject; e.g. list of historical works by Jesuits 016.9. But in exceptional cases the bibliografy of a special class of authors may be put with that class; e.g. bibliografy of women's writings 396.58, tho 013.396 would be the better number in a general library

.0206 Writings of members of A L A
.064 " " " " French academy
.282 " " Roman catholics
.378744 " " Harvard graduates

.9 Writings of foren residents in a special country

Often extended to one or more generations of descendants. This provides for bibliografies in which nationalty, not subject, is the important idea

.91 Authors from special country

Divided like 930–999 by country of origin and farther subdivided with 0 like 930–999 by country of adoption; e.g. 013.91485 bibliografy of writing of Swedes outside Sweden, 013.91485044 writings of Swedes in France, 013.9148507 of Swedes in America. This groups under *mother* country; e.g. gathers together all lists of works by emigrant Swedes

.930–999 Foren authors in special country

Usually preferable to .91. Divided like 930–999 by country of adoption and farther subdivided with 0 like 930–999 for country of origin; e.g. 013.944 foren authors in France; 013.973 foren authors in U S, 013.9730485 Swedish authors in U S, 013.9485073 American authors in Sweden. Ordinarily 013.94807 would be explicit enough; the longer number is not advised. This groups under *adopted* country; e.g. gathers under a given country all its foren authors

014 Of Special Forms. Anonyms, Pseudonyms, etc

.1, American; .2, English; .3, German, etc.

015 Of Special Countries.

Books published in the country. Publishers' lists, current publications. **Subdivided by** countries like 940–999; e. g. 015.42, Bibliography of book. published in England, as Lowndes or English Catalog.

The history of literature, i. e. belles lettres, poetry, drama, fiction, etc., goes, of course, with those topics in 800; but the literary history of any given place or period covering the writings on all subjects as well as in literature, is bibliography, and goes, usually, in 015, though the literary history of some special class is 013.

016 Of Special Subjects.

Subdivided like the main classification, from 000–999; e. g. 016.01, Bibliography of bibliographies; 016.091, of manuscripts; 016.5, of science; 016.942, of English history, etc.

Library and Sale Catalogs.

Catalogs of any special subject, whether subject, author, or dictionary, go under its subject number, in 016, which is the ruling heading wherever it conflicts with another. 017–019 therefore includes only catalogs of general collections, limited to no one class or subject.

017 Classed Catalogs. Systematic or Logical.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

For all forms of alphabetical subject catalogs, see 019. See 016 for Bibliographies.

018 Author Catalogs. See 011 for Bibliographies.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

A volume containing both author and subject catalogs is more useful in 017. For auction catalogs of private libraries use 018.2, not 018.3. 018 includes accession, chronological, and any other forms (except subject and dictionary) of catalogs of collections.

019 Dictionary Catalogs. Alphabetico-classed, etc.

.1, Public; .2, Private; .3, Auction; .4, Booksellers.

020 Library economy

SUMMARY

020-025 Science and administration of libraries in general
- 021 Scope, fourding, supporting
- 022 Bildings and grounds
- 023 Government and service
- 024 Regulations
- 025 Administration

026-027 Special libraries and collections; history, description and management
- 026 Libraries on special subjects
- 027 General libraries

028-029 Allied subjects
- 028 Reading and aids
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REFERENCES TO OTHER MATERIAL
- 010 Bibliografy
- 090 Book rarities

020.1 Theory .2 Compends .3 Dictionaries .4 Essays .5 Periodicals

020.6 Societies, associations, clubs, conferences

..61 Official institutions; government departments
For library commissions see 021.82
.62 Societies not under governmental control
.621 International associations
.622 National "
.623 State "
.624 Local clubs
.625 Associations of special groups
State librarians, or class in 027.506
Medical " " " " 026.6106
Sunday school " " " 027.8
Library dep't of N E A or class with subject in 021.3

020.626 Mutual benefit associations
Or class in 023.59, if preferd
.627 A L A publishing board
For library leags see 021.3
.63 Congresses, conferences, meetings, temporary organizations
.65 Commercial establishments Library Bureau
For commercial circulars see 020.85
.7 Education Training Library schools
.71 Instruction, schools
Standards, location, cost, etc.
.711 Library schools
Use letter for each school, and if desired divide like 378 A–Z
.712 Summer schools
.713 Apprentis classes Training classes
.714 Correspondence schools
.715 Library institutes
Similar to teachers institutes; local meetings with a conductor, for discussion of practical problems
.716 Courses in colleges and universities
.717 Courses in normal and high schools
.718
.719 Private schools and instruction
.72 Research work
.73
.74 Museums, exhibits
Collections of illustrativ appliances, blanks etc
.75
.76
.77 Special pedagogic methods
.78
.79 Competitions, prizes, traveling scholarships
.8 Polygrafy
.81 Individual polygrafy
.82 Collectiv "
.822 Extracts, maxims, anthologies
.83 Recipes
.84
.85 Commercial circulars
See also 020.65 Commercial establishments
.86
.87
.88 Curiosa, anecdotes, library humor, dummy book titles
.9 History of library economy
For history of libraries both public and private see 027
Lives of librarians are clast in 920.2. To keep them with the subject use 020.92, and for fotografs of librarians 020.921. Collected lives may be separated from individual by use of the Olin booknumbers. See p. 790, after Index

021 Scope, usefulness and founding of libraries
Also scope and founding of combined libraries and museums. Support, development
.01 Arguments for libraries: purpose, benefits
Impressivness of libraries. Discussion of free public libraries is better clast here than in 027.4
.02 Arguments against libraries: evils of libraries
For paternalism in library see 021.201
.03 Progress and future of libraries
Reforms, improvements, projects, plans, prophesies, library ideals
.04 Ideals for special communities
e.g. what a library can do for a manufacturing community
.1 Library as a storehouse
.16 Character of material appropriate to library
.2 Library as an educator; people's university
Material on private reading is better in 028 than in 021.2
While the work of a library is nearly all educational in a broad sense, the relations of the library to special classes of the community, outside of direct educational work thru schools and home education work, are best clast with libraries for special classes in 027.6, or when a special subject predominates, in 026
.201 Paternalism in library
See also 024.58 Library censorship of news, 024.64 Restriction of immoral books, 025.217 Exclusion of immoral or ill made books
.25 Library as a publisher
.26 " bookseller
.3 Library in relation to schools and the young
This is mainly for relations of general public libraries to school work. Class a library ownd by and kept at the school in 027.8. School libraries, 371.6, is only to keep all school material together under 370. Class general work for children with children's libraries in 027.6
.31 Relations to teachers
.32 " pupils
Librarian's talks to pupils, either at schoolhouses or at library, on use of library
.33 Special libraries for schools
Specially selected from general library and lent to school either for class or general school use
.34
.37 Work of individual libraries with schools
Alfabeted by library; e.g. accounts of work with schools by Hartford public library under Hartford, by Osterhout library at Wilkesbarre under Osterhout
.4 Home education
This includes all servises or added fields of work undertaken by the library outside the use of books. For programs, reports, etc. of home education agencies, see 374.1–.9
.41 Study clubs Reading circles, etc.
.42 Conferences, conventions, institutes, etc.
.43 Lectures
For extension courses, see 021.44
.44 Extension courses Lecture study
.45 Entertainments: dramatic, musical, etc.
.46 Museums and temporary exhibits
.47 Science museums or collections
.48 Art galleries "

021.5 Library as a recreation

.6 Library extension and cooperation

For work done by the state see 021.8

.61 Deliveries

See also 025.6 and 022.16

.62 Branches

See also 022.15

.63 Centralization Grouping of libraries

.64 Cooperation between libraries

Cooperation in any special department is clast with the department; e.g. interlibrary lending 025.6

.65 Traveling libraries

A collection (usually 25 to 100 volumes) either general or on one subject, lent to a community, library, study club or other organization

.66 House libraries

A small traveling library for use of a person or household. Originated at New York state library for isolated students

.67 Home libraries

Small libraries for children, each library kept at home of some child for use of a group, under supervision of a visitor. The libraries travel from group to group. Originated by Boston Children's aid society

.7 Founding Developing and maintaining interest

This is mainly for starting a library, interesting people and bringing them to the library. For most special methods of interesting those who are alredy readers see 025.5 and 025.6

.71 Personal canvass, visits and correspondence

.72 Circulars

.73 Advertizing

In newspapers, posters, street cars, etc.

.74 Press Publicity

Newspaper editorials, articles, letters, etc.

.75 Schools and teachers

.76 Churches and ministers Pulpit

.77 Literary and other organizations and institutions

.78 Lectures Public meetings and addresses

.79 Library propaganda

Societies, local or general, for encouragement and stimulation

.8 Libraries and the state Library legislation

.81 State supervision

.82 Library departments or commissions

Special work done by commissions is clast by its subject. Reports of commissions, if largely a summary of the *public* libraries of the state, go in 027.4 If important to keep all work of commissions together, class their reports here

.83 Government aid

.831 State grants of money

.832 Local subsidies

.84 Gifts of books

.841 Public documents, etc.

.842 Copyright books

021.85 Exchanges

See 025.266 for systems of exchanges, management, routine in individual libraries. This number is for general exchanges by state or central authority

.851 Local

.852 Foren

Vattemare international exchanges, Smithsonian exchanges

.86 Privileges

.861 Remitted duties Free importation

.862 Free postage Franking privilege

.863 Lower rates or special facilities Cheap library post

.87

.88 State or local hindrances Politics

.89 Library legislation

General; laws for a special subject are clast with the subject; e.g. law for a library commission 021.82; law against injuring library books 024.8

.891 National legislation

.892 State "

.893 Local legislation (county, city or village)

.894-.899 Legislation in special countries or places

Divided like 940-999

.9 Support, raising funds, etc.

For state aid separate from local help see 021.8

.91 Taxes Appropriations Subsidies

.92 Endowment

.93 Gifts of money or books

See also 021.84 Government gifts

.94 Bequests

.95 Subscriptions

.96 Lectures Fairs Entertainments, etc.

For raising money. For educational purposes see 021.43-.45

.97 Membership fees

022 Library bildings

See also 727.8 Architecture. For care of bilding see 025.9

.1 **Location, site, etc.**

.11 Location with reference to field of work

Accessibility to population servd, to other libraries, educational institutions, etc.

.12 Site

With reference to space, air, light, soil, slope of ground, etc.

.13 Provision for growth New bildings

.14

.15 Branches

.16 Delivery stations

.17 Newsrooms, reading rooms, etc.

.2 **Material, protection**

.21 Material: wood, brick, stone, steel, glass, etc.

Relativ fitness for library bildings. See also 620.11 Strength of materials; 691 Bilding materials

.22

.23

.24 Fireproof construction

.25 Protection against fires

Location and relativ efficiency of apparatus: hose, extinguishers, chemic engins, standpipes, etc. For watchman see 025.9. See also 614.84 Fire protection

.26 Library fires, burning of libraries

.27 Insurance

.28

.29 Other dangers

Flood, earthquake, cyclone, war, etc.

.3 **Design Plans Construction**

Alfabet plans, elevations, exteriors, general descriptions, etc. by name o library. Use .31–.33 only for indexing

.31 By kind of library

Divided like 027. Group plans for public libraries, 022.314, in 3 subsections

022.3141 Libraries under 20,000, small; i.e. under this number list plans of such libraries, but shelv them in their alfabetic place under 022.3

.3142 Libraries from 20,000–100,000, medium

.3143 Libraries over 100,000, large

.32 By subject

Divided like 026; e.g. under 022.3234 list plans of law libraries so that they may be readily referd to in 022.3, or in journals or reports clast elsewhere

.33 By country

Divide like 930–999 and use like 022.31–.32 only for reference

.34 Design and decoration

Divided like 729 as follows:

.341 Elevation, style

Only for general discussion; class elevation of a special library under 022.3

.342 Plan

Number, distribution and dimensions of rooms; special forms, spiral, circular, etc. See note under 022.341

022.343 Artistic forms

.344 Painted decoration, etc.

.348 Staind glass

.349 Accessories and fixt furniture

Include paintings, statues, busts, etc. as decoration for bilding. Special library furniture, bookcases, loan desks, etc. are 022.9

.35 Construction

Divided like 721. Class here only discussions limited to library bildings

.36

.37 Library rooms as part of other bilding

.38

.39 Remodeling old bilding

Either other bildings (churches, residences, etc.) for library purposes, or remodeling a library to meet modern conditions

.4 **Storage and shelving**

.41 Storage

Capacity per square meter of floor, or running meter of cases; allowance for growth

.42 Shelving round sides of room

.421 Wall cases

.422 Alcoves

.423 Galleries

.43 Stacks

.431 Stack rooms

Dimensions, maximum width with natural light only. Number of rooms, one or several. Number of floors

.432 Arrangement of cases

Parallel, radial; light; open access, supervision

.433 Movable cases

.434 Ailes

Position, width

.435 Flooring of stack rooms

Solid, glass, open grating

.438 **Maximum floor load**

.44 Cases, tiers

.441 Material; wood, metal, glass

.442 Dimensions of case and tier, hight, length

See also 022.452 Dimensions of shelf

.443 Plan of cases

Open or closed ends and backs; 1 or 2 ledges

.444 Fixt or movable shelvs

.445 Quarto and folio shelving

.45 Shelvs

.451 Material

Wood, metal, glass, stone, sheet iron, skeleton steel

.452 Dimensions; length, depth, thickness; standard shelf

.453 Surface finish or covering

Paint, varnish, cloth or lether covering

.454 Shelf supports: pins, brackets

022.46 Cases and shelvs for large books, lying flat
Dimensions, sliding or roller shelvs, etc.
.47 Closed cases Doors: glass, screen or wood
.48 Special cases
.481 Hanging presses
.482 New-book cases
.483
.484
.485 Cases for maps, engravings, etc.
.486 Cases for fotografs
.487 Cases for lantern slides
.5 Reading rooms
See also 022.63 Rooms for special material
.51 General reading room Central hall
.52 Small reading rooms Study rooms
Gallery study tables. For seminar and class rooms see 022.653
.53 Reference room
.54 Standard library
.56
.57 Women's room
.58 Children's room
.6 Administration and special rooms
.61 Rooms for trustees or outside organizations
.611 For trustees
.612 " committees, commission, school board
.613
.614 " local societies
.62 Administration rooms
Divided like 025
.63 Rooms for special material
Divided like 025.17; e.g. 022.6332 Newsrooms
.64 Special collections: patents, local history, etc.
.65 Instruction rooms, etc.
.651 Lecture room or hall, theater, concert
.653 Seminar room, class room
.655 Museum
.656 Art gallery
.657 Exhibition room
.658 Photografic and dark room
.659 Piano and music room
.66 Recreation rooms
.661 Conversation room
.662 Chess room
.663 Other games
.664 Billiards
.665 Bowling
.666 Gymnasium

022.67
.68 Public rooms Lavatories, etc.
.681 Entrance halls and corridors
.682 Waiting room
.683 Telefone booth or room
.684 Lunch room
.685 Coat room
.686 Toilet room, lavatories, etc.
.687 Garage, bicycle room, etc.
.69 Residence rooms
.691 Librarian
.695 Janitor
.7 Lighting
.71 Natural lighting; windows
For architectural side see 022.358; for staind glass see 022.348
Position of windows; size and number; shape. Provision for opening: sliding, hinged or pivot sash, French casement
.72 Skylights
.73 Prisms
.74
.75 Artificial lights: materials
.751 Lamps, oil, etc.
.752 Gas
.753 Acetylene
.754 Electricity
.76 Fixtures
.762 Portable or semiportable lights
.763 Table lights
.764 Standards
.765 Bracket lamps
.766 Chandeliers
.77 Lighting of stacks by electricity
Fixt or movable lights
.8 Heating and ventilation
General hygiene of library. Divided like 697
.9 Fixtures, furniture, fittings
.91 General furniture
.911 Chairs
.912 Tables
.913 Desks
.914 Revolving cases
.915 Bases
.916 Vertical files

022.92 Public conveniences
.921 Hatracks
.922 Umbrella stands
.923 Clocks
.924 Bulletin boards
.93 Furniture for exhibiting or using books, pictures, etc.
.931 Exhibition cases, fixt or movable
.932 Wing frames
.933 Easels
.934 Reference book holders
.94 Appliances for getting or carrying books or messages
.941 Ladders, stepladders
.942 Book trucks
.943 Carrying trays
.944 Mechanical carriers
.945 Book lifts
.946 Pneumatic tubes
.947 Speaking tubes
.948 Interdepartment telefones
See also 621.3853, intercommunicating telefones
.95 Elevators
For carrying persons, goods, etc. See also 621.877. Class here only discussion of them for library use. For book lifts see 022.945
.96 Floor coverings
For permanent flooring see 022.356
.961 Linoleum, corticine
.962 Matting
.963 Carpets
.964 Rugs
.965 Door mats: rubber, wire, etc.
.97
.98
.99 Desk fittings, etc.
Divided like 651

023 Government and servis Personnel

For government of special kinds of libraries see 026 and 027

.1 Constitution and bylaws for governing board
Charters. Local ordinances, etc.

.2 Appointment and tenure of offisers under governing board
State or local civil servis. Special library examinations. Promotions. Probationary appointments. Temporary or limited period appointments. Appointments by executiv offiser

023.3 Governing board
Trustees, committees, directors, regents, etc.
.31 Method of selection
Election, appointment, exofficio trustees, close corporation, i.e. selfperpetuating body
.32 Number
.33 Qualifications
.34 Women as trustees
.35 Powers and duties
.36 Financial administration
.37
.38 Time and place of meetings
.4 Executiv Consulting librarian Library expert
For appointment see 023.2. See also 023.5–.9, which apply to executiv as well as to staff
.43 Responsibilities and privileges
.5 Staff
Including all subordinate positions. For method of appointment see 023.2
.51 Qualifications
.52 Personality Character Moral and social equipment
.53 Mental equipment Natural ability
.531 General education
.532 Professional education Training
See also 020.7 Library schools
.535 Reading of librarians
.54 Physical equipment Helth Exercise
.55 Staff meetings Relations to hed
.56 Women as librarians
Including difference in salaries of men and women
.57 Worries and trials
.58 Longevity
.59 Library benefit associations
See also 020.626
.6 Daily hours Holidays and vacations
.61 Daily hours
.611 Records Record clock
.612 Punctuality Tardiness
.62 Hours for meals Lunch room
See also 022.6
.63 Special work
.631 Evening
.632 Sunday
.633 Holiday
.64 Work by hour Overtime, extra hours
.641 Making up lost time
.642 Payment for overtime
.643 Effect of overstrain on employees
.644 " " on servis

023.65 Holidays
.651 Weekly half holiday
.652 Legal holidays
.66 Vacations
.661 Time of year
.662 Length
.663 Continuous or in instalments
.664 Sabbatic year
.67 Absences for sickness or other causes
See also 023.641
.68 Attendance at meetings
.681 International
.682 National
.683 State
.684 Local
.7 Titles and duties
.701 Specialization Monotony Change of work
.702 Understudies
.71 Executiv Director
Chief or principal librarian, keeper, etc.
.72 Department, division or section heds
Librarians, sublibrarians, chiefs, heds
.73 Reference staff or faculty
Librarians of special subjects
.74 Assistants Catalogers
.75 Pupil assistants, apprentises, volunteers
Paid mainly by instruction
.76 Clerical servis
.761 Stenografers
.762 Typewriters
.763 Clerks
.77 Mechanic servis
.771 Binders
.772 Electricians
.773 Carpenters
.774 Other mechanics
.78 Pages, messengers, ushers, runners
.79 Janitor servis
.791 Janitor
.792 Watchman
.793 Elevatormen
.794 Attendants, in coat room, etc.
.795 Porters and packers
.796 Cleaners, etc.

023.8 Salaries
Divided like 023.7. See 023.56 for difference between salaries of men and women
.9 Rules for staff Codes
Made by trustees or librarian
For punctuality see 023.612. For absences or sick leave see 023.67
.91 Conversation
.92 Personal calls or work
.93 Soliciting money, subscriptions, contributions
.94 Respect and care for library property
.95 Uniforms
.96 Curtesy Indifferencc
See also 174 Business ethics; 177.1 Curtesy (social ethics)

024 Rules for readers
For reference and circulating departments
.1 Readers qualifications
.11 Age
.12 Residence
.13 Relations to community
Membership in society, club or institution; official position; profession, etc.
.14 Responsibility
Reference, guarantor, money deposit
.15 Registration
.16 " for limited period
.2 Fees Assessments Free use
.21 Membership fees
Mercantil libraries, atheneums
.22 Book fees
Circulating library fees. For fines see 024.6
.23 Fees for readers card, etc.
For petty expenses to gard against wastefulness
.24
.25 Extra library fees; e. g. college library
.26 Public library fec
For subscription departments see 024.7
.27
.28 Free use
.3 Hours of opening
.31 Number of hours
.32 Time of day: morning, afternoon
.33 Evening opening
.34 All night "
.35 Intermission for meals
Closing library during lunch, dinner or supper hours
.36 Hours for reference and circulating departments
.37 Cooperation of local libraries
Agreement on hours so that some library shall always be open

024.4 Days of opening or closing
.41 Sunday
.42 Special religious days
.43 Holidays
.44 Vacation, summer
.45 Inventory Examination
Closing for annual examination of library
.46 Special occasions
Closing for recataloging or rearrangement; public calamity, deths
.47 Closing for epidemics
.5 Reference use
.51 Reading room rules
.52 Decorum in library
Unwelcome visitors; library cranks
.53 Ladies in reading room
For women's separate reading room see 022.57
.54 Access to catalogs
For access to librarian see 023.43
.55 Open reference shelvs
.56 Open shelvs in general
.57 Restricted or selected access to shelvs
Restriction as to persons or subjects
.58 Library censorship of news
Obliteration or suppression, in reading room copies, of newspaper reports tending to lower morals; e.g. betting and racing news, reports of crime, criminal trials. See also 021.201 Paternalism
.6 Home use Loans
.61 Number of books
.611 Two book system
.612 Summer vacation cards
.62 Time: 7 day books, new periodicals
.63 Delinquencies Fines
For injuries, etc. see 024.8
.64 Renewals
Extension of loans by library
.65 Relending
Lending by borrowers
.66 Reservations
.67 Restricted books
.671 Reference
.672 Rare or costly
.673 Medical
.674 Of immoral tendency Library inferno
See also 021.201 Paternalism
.68 Interlibrary loans
.681 International loans

024.7 Special privileges
.71 Extra books Teachers cards
.72 Extra time
.73 Remission of fines Excuses
.74 Favord classes: trustees, faculty, staff
.77 Lending restricted books
.78 Subscription department
Novels and popular new books lent for fee. Extra copies for rent in public (tax supported) libraries
.8 Injuries Abuses
.81 Defacements
Marks; corrections, notes and comments
.82 Mutilation
.83 Removal of plates, maps, etc.
.84 Mutilating newspapers
.85 Losses by readers; payment
.86 Thefts
.87 Restitutions
.88
.89 Prevention of abuse
Methods of preventing injury and inducing better care of books. For library leag see 027.6
.9 Other rules

025 Administration Departments

SUMMARY

Supervision	025.1	Executiv
Acquisition	.2	Accession
Utilization	.3	Catalog
	.4	Classification
	.5	Reference
	.6	Loan
Preservation	.7	Binding
	.8	Shelf
	.9	Care of bilding

025 is for the librarian's part. The trustees bild and furnish (022); make rules for government and servis (023), and regulations for readers (024); but the administration involvs questions of its own, which, however, are closely allied to topics in 021–024 and elsewhere; e. g. the librarian must know his side of binding, and be able to give proper directions and supervision, but need not know all the details of the binder's craft (686)

Administration includes .1 Supervision; .2 Acquisition; .3–6 Utilization; .7–9 Preservation; i. e. the librarian's duty to books is to Get, Use, Keep

.1 Executiv General supervision

.11 Finances
See also 023.36 Financial administration of governing board

.111 Invested funds, endowments, gifts
See also 021.9 Support

.112 Appropriations: local or state
See also 021.8

.113 Other money receivd
Fees, assessments, fines, payments for special servises and investigations, etc.

.114 Accounts: receipts and expenses, bookkeeping

.115 Salary payments Staff payrolls
See also 023.8 Salaries

.116 Expenses: fittings, supplies and incidentals
Class with a department supplies peculiar to it, their kind, quality, cost, etc; e.g. class catalog cards with 025.3. For bookbuying see 025.2

.117

.118 Cost of preparing books for shelvs

.12 Printing and publications
Both preparation of material and details of printing, including size, style, type, etc.

.121 Blanks and forms, stationery
If relating to a special department class with it; e.g. bookplates in 025.2

.122 Publications

.123 Reports and statistics
See also 027

.124 Catalogs
See also 017–019. For cataloging see 025.3

.125 Bulletins
Frequency, advertisements, etc. See also 017–019. For preparation of book lists see 025.3

.126 Library magazine or paper

.127

.128

.129 Duplicating by neostyle, carbon etc.
For machines and processes see 652. Class here discussion of fitness for library applications only

025.15 Correspondence

.151 Stationery
Material, weight, size and headings

.152 Stenografers, dictation machines

.153 Typewriters

.154 Copiers
Roller, press, carbons, portable. See also 025.129

.156 Letter files
See 029.8 for methods

.17 Treatment of special material
For general discussions. Class special work under each department; e.g. cataloging of incunabula in 025.3

.171 Manuscripts and rarities
Divided like 090

.172 Pamflets

.173 Serials, documents, etc.

1 Periodicals, magazines, etc.
2 Newspapers
3 Annual reports
4 Documents; national, state and local

.174 Broadsides

.175 Clippings

.176 Maps and charts

.177 Art material
Engravings, fotografs, drawings, lantern slides

.178 Music: scores, rolls, etc.

.179 Museum material

.18 Administration of individual libraries
Alfabet by name of library. For administration of special kinds of libraries see 026 and 027

025.2 Accession Acquisition

SUMMARY

025.21 The library and its selection
.22 Methods of acquisition
.23 Ordering and receiving
.24 Accessioning
.25 Marks of ownership
.26 Duplicate and exchange department
.29 Special material

.21 The library and its selection

.211 What? Proper proportion of subjects
Division of funds; endowments for special subjects; accession statistics

.212 Specialization by libraries
Division of subjects among local libraries. See also 021.64 Cooperation. For collections on special subjects, economics, science etc. see 026

.213

.214 Who? Selectors of books
Trustees or trustee committee; librarian; staff committee, book board; advisory committee from outside; experts; central body (bibliografic bureau, state commission, etc.)

.215 How? Methods of selection
Recommendations by readers; personal examination; visits to book stores; books sent on approval: printed reviews; first selection for new library
For lists of best books, A L A catalog, annual lists, etc. see 016
For principles of selection and choice of editions see 028.2
For selection for special classes see 027.6, 027.8, 028.5

.216 Buying fiction
Duplicating popular fiction; extra copies of best fiction

.217 Rejection, exclusion, censorship
Pernicious literature; badly made books; yellow journals See also 021.201 Paternalism

.218 Weeding out, sifting
Separating books no longer ot servis to library. For withdrawal book see 025.249

.22 Methods of acquisition

.221 Buying new books
Local bookstore; book center, general agent; publishers; subscription agent; bids on special lists; foren books thru home or American agent, thru foren agent. See also special material 025.29

.222 Prices Discounts
Net books. For free importation, see 021.861

.223 Buying old books
Secondhand catalogs; remainders, trade sales; dealers in old books, bookstalls; value of old books

.224 Auctions
For auction catalogs, see 017–019

.225 Buying libraries in block

.226 Exchange

.227 Gifts
Request blanks and records; gift lists; acknowledgments; privately printed books; propagandist books
For government documents and copyright books see 021.84
See 025.268 for gifts from library to library

025.23 Ordering and receiving
For gifts, see 025.227; for exchanges, see 025.266

.231 Ordering
Order slips or lists; order books or sheets; copies of orders; order index; order numbers

.232 Examination for duplicates and verification
Misspeld names; changed titles; separates

.233 Reception and opening
Express, mail, etc; frequency of shipments; free delivery

.234 Checking bills
Prices and amounts

.235 Collation

.236 Receipt index

.24 Accession book

.241 Importance of record
Accession book vs shelflist, etc.

.242 Printed headings Items Fulness of entries

.243 Accession number: volume, work or invoice

.244 Accession stamp

.249 Withdrawal book

.25 Ownership marks

.251 Private marks

.252 Stamping
Ink, embossing, or perforating stamp.
Table and foot power

.253 Book plates Plating
See also 097

.254 Library name on outside of book
Gilding or impressing name of library on back or covers

.255 Card pockets

.26 Duplicate and exchange departments

.261 Duplicates
Definition, rules and decisions, marking, stamp, plate, etc.

.262 Duplicates of institution's own publications
Either of libraryor larger organization including it; e.g. duplicate Columbia publications in Columbia university library; stock on hand

.263 Cataloging

.264 Arrangement

.265 Sale for cash

.266 Exchange
General exchange of publications; exchange accounts

.267 Clearing house for duplicates
See also 021.852 Vattemare international exchanges, Smithsonian exchanges

.268 Gifts to other libraries

.269 Small libraries, hospitals, prisons, etc.
Large libraries, material not needed in small libraries deposited in great collections, see 025.218

.29 Special material
Divided like 025.17

025.3 **Catalog**

For printed catalogs themselvs, see 017–019. This is for *cataloging*

Printed, manuscript, or card; Author, subject, title, clast; Dictionar or combined; Cooperativ rules; Size notation; Cooperativ cataloging; Duplicated titles, print or photografy; Mechanical accessories, cards, cases and fittings, drawers, trays, blocks, checks, guides, labels

.4 **Classification**

For philosofic classification of knowledge, see 112 Methodology. This is for practical classing of books, pamflets, and notes, rather than theoretic speculation

On shelvs; in catalogs; in dictionary catalogs; Systems of notation, figures, letters, symbols, combined; Importance and advantages; Difficulties; Close vs broad classing; Mnemonic features; Basis of division; Coordination of special subjects

.5 **Reference Reference books Aids to readers**

See 028 for general discussion of reading and aids. This is limited to library administration

.6 **Loan**

See 024.1 and 024.6 for regulations

Indicators; Charging systems, legers vs cards; Book cards, marks, pockets; Call slips, readers cards; Notises, reservs; Registers; Interlibrary loans; Mechanical accessories, slip cases, trays, tills, stamps, etc.

.7 **Binding and repair**

See also 686 Bookbinding

Materials, durability, tight vs spring backs, sewing, color, lettering; Paper covers and temporary binders; Restoring, mending, cleaning, and oiling

.8 **Shelf**

See 022.9, Shelving

Arrangement; Shelf numbers; Shelf and book labels; Fixt and relativ locations; Sizes of shelvs; Arrangement and preservation of public documents, pamflets, papers, manuscripts, maps, drawings, and plans, music, broadsides, clippings; Injuries, heat, gas, insects; Stock taking; Shelf lists

.9 **Bilding Care, cleaning, safety Janitor Police**

See 022 for bilding and fittings. This is janitor's department

026 Libraries on special subjects

Histories, reports, statistics, bulletins, handbooks, circulars, and everything about the library not more required in one of the sections above. Subdivided by adding the class number of subject; e. g. a Medical library is 026.61; a Chess library, 026.794; but the Catalog of a Chess library is 016.794. Blanks, etc. from any library go under subjects in 025, as more used in studying topics; but, if history of individual libraries is specialized, duplicates are also desirable under the library in 026–7, thus making a complete set of its publications

027 General libraries

This includes both circulating and reference; i. e. all not limited to special subjects

Subdivided if wisht by countries, like 930–999; e. g. 027.744 College libraries in France. Or if wisht, group all by geografic location, using 0 in 4th place to indicate no division by *kinds* of libraries; e. g. 027.044 Libraries of France; 027.07471 Libraries of N. Y. city

A private library is still clast 027.1, after it has been sold or merged in a public library. But a society library changed to a free public should take 027.4 for all publications after the change

.1 **Private and family**

.2 **Proprietary, society, club and Atheneum**

.2 is limited to libraries that are semiprivate, requiring an election for admission, while .3 includes all open to any one on payment of a fee. It is the difference between a club and a hotel. .3 is for libraries run as a business. A mercantil library, even tho it has endowments, if open without individual election, goes in .3 as a subsidized public subscription library. Many private subscription libraries go in .2

.3 **Subscription Circulating**

Mudie's, Booklovers, etc.

.4 **Free public Rate supported Endowd**

See also 331.85

.5 **State and government**

.6 **For special classes**

Institution, prison, reformatory, asylum, monastic, workmen's, factory, railroad, sailors, lighthouse, itinerating. A workmen's library of books on engineering is 026.62, not here, as the subject is more useful than the class of readers

.7 **College**

.8 **School Sunday school Parish**

See also 371.64; 021.3

.9 **Free newsrooms and reading rooms**

See also 331.85

028 Reading and aids

See 374.1–.2, Self education by private reading and reading circles

.1 **Methods**
Tasting, skipping, reviewing, making synopses, abstracts, extracts, and index rerums (see 029), book marking

.2 **Choice of editions**
Annotations, indexes, paper, type

.3 **Courses of reading**

.4 **Fiction Novel reading**

.5 **Reading of young Juvenils**

.6 **Professorships of books and reading**
Lectures. Stimulus and guidance in schools

.7 **Use of reference books**

.8 **Aids to readers**
Guidance, printed or personal. See also 028.6 and 025.5

.9 **Character of reading in libraries**

029 Literary methods and laborsavers

Much in 025 and 028 belongs equally under 029 in its full meaning, but practical convenience is best servd by referring to 025 and 028 insted of repeating the heds

.1 **Methods**
Exact reference; standard sizes; use of colors; thought study; intercalation or card system (see 025.3); cooperativ methods; records vs memory, etc. See 653 Abbreviations and shorthand; 154.1 Mnemonics; 025.4 Classification
.1 is for what one *learns* how to do by an improved *method*
.2 is for articles which one must make or buy in order to utilize. Where a pamflet covers both appliance and method, class with predominant feature

.2 **Appliances Laborsaving tools and devices**
See also 651. Most literary laborsaving devices go also under 651, Offis equipment and methods; and are best kept together there; e. g. all offis and study furniture, fittings and supplies, cases, bookholders, reading desks, pigeonholes, files, etc. For pamflet, map, etc. cases, see 025.8; for binders, 025.7

.3 **Clippings Scrapbooks or files**
See also Files, 651

.4 **Notebooks, notetaking, abstracting, etc.**

.5 **Indexing Index rerums Printed and patent indexes**
For alfabeting and transliteration see 025.3

.6 **Authorship Writing for press Copy and proof**
See also 655.25 Proofreading; 655.52 Relations to publishers

.7

.8

.9

The Divisions 030–070 below are all subdivided; 1 American; 2 English; 3 German; 4 French; 5 Italian; 6 Spanish; 7 Slavic; 8 Scandinavian; 9 Other

030 General cyclopedias

040 General collected essays

050 General periodicals Magazines

060 General societies Transactions

Acadamies of Paris, Berlin, Vienna, etc.

070 Journalism General newspapers

See also 029.3 Clippings Clipping bureaus
322 Liberty of the press (political science)
351.751 Regulation of the press (government administration)
396.507 Women in journalism
655 Printing Publishing Copyright
741 Cartoons Caricatures

.1 **Utility Theories Relations to other professions**
For government relations see 070.15

.11 Standards Ethics Influence Responsibility
General and higher view, educativ influence; for degradation of the press see 070.16

.12 Endowd newspapers
Independence of popularity

.13 Liberty of the press Censorship
Individual privacy; diplomatic secrets; seditious or anarchic influence
See also political science, 323 Domestic relations

.14 War censorship

.15 Subservience to special interests
Use by sectarian, partizan or private interests. Government relations and influence: subsidies, 'reptil fund'

.16 Sensational or 'yellow' journalism
Fictitious news; scandals, murder and divorce trials; blackmail, bribes

.17

.18 Anonymous journals
Those with editors or place of publication unknown

.19 Other general questions
Comparison of field, importance and influence of newspaper, periodical and book

.2 **Ownership and control**

.22 Newspaper names

.23 Location

.232 Metropolitan Large city

.234 Provincial Small city

.236 Rural or village

.26 Syndicates Patent insides

070.3 **Business management**

.31 Staff and workmen

.311 Offis staff

Manager, stenografers, bookkepeers, clerks, messengers

.312 Workmen

Compositors, foundrymen, pressmen, mechanics, laborers

.315 Hours, shifts

.318 Newspaper strikes

.32 Newspaper printing

Class here discussion of economy and other advantages of special methods and appliances

For mechanism and operation of newspaper presses see 655.31 Printing presses

.321 Size of page

.322 Methods and appliances

2 Composition: linotype, monotype, etc.

3 Stereotyping

4 Presses

.324 Newspaper cuts: wood, zinc line, halftone

.325 Frequency of issue

Daily, semiweekly, weekly, etc.

.327 Time of issue

Morning, evening, successiv editions, extras

.328 Size of editions, number printed

.33 Distribution Circulation Sale

.331 Direct: subscription Mailing

.332 House delivery

.334 Indirect: newsboys, news agencies, etc.

Crying and peddling in streets and news stands

.336 Advertizing methods

Subdivided like 659.1 Advertizing

.337 Specialties

As means of increasing circulation. For special departments see 070.43

Regular: foren or marine news, stocks, sporting, etc.

Occasional: adoption of popular causes, exposure of abuses, etc.

.338 Other means of increasing circulation

Competitions, guessing contests, prizes, fairs, lotteries, expeditions, etc.

.34 Cost of production Expenses

.341 Plant: bilding and equipment, offises

Duplicate plant. Depreciation of machinery

.343 Supplies: paper, stationery, etc.

.344 Salaries and wages

Space rates. Pay of journalists, pecuniary inducements of vocation. Traveling expenses

.345 Postage: pound rates, free carriage

.348 Advertizing

Necessity and cost of advertizing itself to gain circulation and secure advertizements. For methods see 070.336

.349 Sources of income Receipts

Sales, subscriptions, subsidies. For bribes see 070.16

.36 Advertizing department

Including all business pertaining to a journal's advertizing colums. For advertizing agencies see 659.1

.39 Foren offises

Subdivided like 940–999; e.g. *N Y herald* office in Paris 070.3944

.4 Editorial management

.41 General

Editing rules: order of departments and articles; style; newspaper diction

.42 Staff: reporters, correspondents

Organization: hours, duties. For pay see 070.344

.43 Editorial departments

.431 News

1 Sources and channels of news

Telegraf, telefone, wireless, mail, reporters, carrier pigeons, other. Utilization and precautions; conflicting news

2 Press bureaus: associated press

Laffan and other news bureaus. For clippings see 029.3 under Literary methods and labor savers

5 Foren

6 Home

7 Local

.432 Leaders, editorials

.433 Local interests

Discussion of local affairs, questions affecting schools, library, public works, etc. For local *news* department see 070.4317

.44 Special subjects: departments and editors

.443 Financial: stocks, business, shipping, etc.

.445 Household Home Women Children

2 Cookery

4 Clothing Fashions

6 Hygiene Care of children

7 Women's clubs

8 Children's department: games, puzzles, etc.

.446 Recreation Sporting

.447 Art, musical and dramatic

7 Art

8 Musical

9 Dramatic

.448 Literary

1 Poetry

3 Fiction

.449 Other departments

2 Religion; 3 Education; 5 Science; 8 Humor

070.45 Voluntary correspondents Contributors
.47 Special editions
Sunday newspaper. Supplements. For extras see 07c.327
.48 Special kinds of journals
.481 Official journals
.482 Religious
.483
.484 For foren population
In language foren to country in which publisht
.485 Propagandist
.486 Professional and technical
.487 Humorous
.488 Literary
.489 Other: amateur, etc.

070.5-.9 Form divisions

.5 Periodicals on journalism
.6 Press clubs Conventions Expositions
.7 Study and teaching of journalism College courses
Schools Personal qualifications for journalism
.9 History of newspapers and journalism
General History of American newspapers 071, of German journalism 073, etc. Class history of a particular journal with that journal

071–079 Newspapers of various countries

The 3d figures 1–9 are used as follows:

1 American	4 French	7 Slavic
2 English	5 Italian	8 Scandinavian
3 German	6 Spanish	9 Other

In large collections use geografic divisions under 1, American; 2, English, etc. as in 970 and 940–999. Because of large size and very general character, it is better to keep newspapers together here than to class with local history of the place where publisht. They could not go on shelvs with ordinary books, and a reference is made as easily to them under 070 as anywhere.

080 Special libraries Polygrafy

090 Book rarities

Books about these topics, and those chiefly valuable because of their rarity, go here. A rare early edition of Shakspere goes in 822.33 with reference from 099. 090 is mostly used for grouping references to books located elsewhere

091 Manuscripts Autografs
Photografs of mss go with subject rather than here
For Diplomatics and Paleografy, see 417, and under the special language, 421.7, 431.7, etc.

092 Block books

093 Early printed books Incunabula

094 Rare printing
Aldines, Elzevirs, Caxtons, etc. Privately printed books; unique books

095 Rare binding
Noted binders, costly ornament, curious bindings

096 Rare illustrations or materials
Illuminated Illustrated by inserted plates Printed on vellum, silk, bark, etc. in gold or silver letters, etc.

097 Ownership Book plates Ex libris

098 Prohibited Lost Imaginary

099 Other rarities Curiosa Minute size, etc.

Philosofy

100 Philosofy in general
Works limited to none of the nine divisions

101 Utility

102 Compends Outlines

103 Dictionaries Cyclopedias

104 Essays, lectures, addresses

105 Periodicals Philosofic magazines

106 Societies Transactions, etc.

107 Study and teaching of philosofy

108 Polygrafy, extracts, maxims, etc.

109 History of philosofy

110 Metaphysics

111 Ontology
Nature of being Substance and form

112 Methodology
Philosofic classification of knowledge Terminology For book classification see 025.4

113 Cosmology

114 Space

115 Time

116 Motion

117 Matter

118 Force

119 Quantity Number

120 Other metaphysical topics

121 Theory of knowledge Origin Limits

122 Causation Cause and effect

123 Liberty and necessity
See also 233.7 Freedom; 234.9 Predestination; 159 Will

124 Teleology Final causes

125 Infinit and finite

126 Consciousness Personality See 233.6 Doctrin

127 Unconsciousness Automata

128 The soul See 218 Natural theology; 237 Future state

129 Origin of the individual soul

.1 **By special creation** See 213 Creation

.2 **By inheritance Traduction**
See 575.1 Evolution; 136.3 Mental heredity; 233.3 Spiritual heredity

.3 **Pre-existence**

.4 **Transmigration Palingenesis**

.5 **Emanation** See also 147 Pantheism; 212 Natural theology

130 Mind and body Anthropology

131 Mental physiology and hygiene
For influence of mind on body, mind cure, etc., see 615.851; see also 613.8 Hygiene of nervous system

132 Mental derangements

.1 **Insanity** See 362.2 Asylums; 920.8 Lives; 616.84 Disease

.2 **Idiocy** See 362.3 Asylums; 920.8 Lives; 371.922 Education

.3 **Hypochondria Melancholy** See 616.852 Hysteria

.4 **Catalepsy** See 616.852 Hysteria

.5 **Ecstatics**

.6 **Kleptomania and other leading to crime**

.7 **Dipsomania and other leading to vice**
See also 178 Temperance; 616.861 Alcoholism

.8 **Mnemonic derangements**
Not knowing in one state what past in another. See also 154 Memory

133 Delusions Witchcraft Magic

.1 **Apparitions Ghosts**

.2 **Hallucinations**

.3 **Divination Oracles Second sight Omens Predictions**

.4 **Witchcraft Sorcery** See also 272.8 Persecutions

.5 **Astrology** See also 520.1 Astrology

.6 **Palmistry**

.7 **Humbugs Quackery**

.9 **Spiritism Table-tipping, etc.** See also 289.9 Sects

134 Mesmerism Animal magnetism Clairvoyance

135 Sleep Dreams Somnambulism

136 Mental characteristics

See also 131 Mental physiology

.1 **As influenced by sex**

See also 376.2 Mental capacity of women

.2 " " " **physical surroundings**

See also 575.3 Evolution; 573.4 Natural history of man

.3 " " " **ancestry (Mental heredity)**

See also 575.1 Evolution; 233.3 Spiritual heredity; 129.2 Origin of soul; 613.92 Hygiene

.4 " " " **race Racial characteristics**

See also 572 Ethnology

.5 " " " **age**

See also 136.7 Childstudy

.6 " " " **physical structure and conditions**

.7 **Childstudy Paidology**

Including adolescence

.702 **Methods**

1 Laboratory

2 Home

.708 **Observations, records Albums**

.71 Body: structure, growth, care

Limited to development period

See also 371.7 School hygiene 613.9 Heredity

612.64 Embryology 136.3 Mental heredity

612.65 Growth 613 Hygiene

.72 Mind

Limited to period of physical development

In a general library better clast in 130 and 150 with only references here

.73 Mental characteristics

Groupt by influence like 136.1–.6

.74 Children's point of view

Divided like the classincation: e. g.

.7417 Ethics .7479 Games

.742 Religion .748 Literature

.75 Delineation of children

Psychology of children from authors' and artists' point of view

.757 **In art**

.758 **In literature**

.76 Abnormal children

Study of development. For methods of instruction see 371.9

For institutions see 362, 364

.761 Physically defectiv

1 **Blind**

2 **Def**

3 **Blind-def**

.762 Mentally defectiv

Divided like 132 Mental derangements; e.g. study of idiotic children 136.7622

.763 Morally defectiv Delinquents

.764 Wildings

Wildings: a class of children which, having been lost or deserted, have grown up away from the surroundings of children, alone or among animals. *Paidology* 1: 196 (July 1900)

136.765 Exceptionals Precocity

.766 **Backward children**

.767 Dependents

Homeless children, a public charge, lacking ideas and associations of children in families

.769 Other abnormal classes

.77 Boys The 'gang' The boy problem

.79 Childhood Divided like 930–999

.791 The child among uncivilized and semicivilized peoples

137 Temperaments

138 Physiognomy

139 Phrenology Mental photografs, etc.

140 Philosofic systems

The heds 140–149.9 are for the discussion of the systems as such. The philosofic works of authors of these various schools are clast under 190, not here From these heds refer in the catalogs to authors clearly falling under them, without attempting to label each writer as an exponent of some one system

141 Idealism Transcendentalism

e. g. Plato, see 184.1, 888.4; Berkeley, see 192.3; Fichte, see 193.3; Emerson, see 191.3, 814.36

142 Critical philosofy

e. g. Kant, see 193.2

143 Intuitionalism

e. g. Reid, see 192.5; McCosh, see 191.5. See also 156 Intuitiv faculty; 171.2 Ethics.

144 Empiricism

e. g. Descartes, see 194.1; Bacon, see 192.1

145 Sensationalism

e. g. Locke, see 192.2

146 Materialism Positivism

e. g. Hobbes; Comte, see 194.8 See also 149.2 Realism

147 Pantheism Monism

e. g. Spinoza See 212 Natural theology

148 Eclecticism

e. g. Cousin, see 194.7

149 Other philosofic systems

See 211 Rationalism, skepticism; 214 Fatalism

.1 **Nominalism**

.2 **Realism** See 146 Materialism

.3 **Mysticism** See 273.2 Heresies; 189.5 Medieval philosofy

.4 **Associationalism**

.5 **Optimism Meliorism**

.6 **Pessimism**

e. g. Schopenhauer, see 193.9 See also 216 Evil; 233 Doctrin of man

.7 **Agnosticism**

See 273.8 Agnostic heresy

.8 **Nihilism**

.9 **Other systems**

150 Mental faculties Psychology

For mind in animals see 591.51

151 Intellect Capacity for knowing

.1 **Genius**

152 Sense Sense perceptions

Passiv or receptiv faculty

.1 **Vision**
.2 **Hearing**
.3 **Smell**
.4 **Taste**
.5 **Touch**
.6 **Muscular sense**

153 Understanding

Activ or thinking faculty

.1 **Conception The concept or notion**
.2 **Association**
.3 **Abstraction**
.4 **Reflection**
.5 **Judgment**
.6 **Reasoning Induction and deduction**
See also 160 Logic

154 Memory Reproductiv power
See also 132.8 Mnemonic derangements

.1 **Mnemonics**

155 Imagination Creativ power

.1 **Fancy Imaging power**

156 Intuitiv faculty Reason
For reasoning, see 153.6

157 Sensibility Emotions Affections

158 Instincts Appetites

159 Will

160 Logic Dialectics

See 153.6 Reasoning power. For logic of chance, see 519 Probabilities

161 Inductiv

162 Deductiv

163 Assent Faith
Se also 234.2 Doctrinal theology

164 Symbolic Algebraic
Logical machines

Logical topics

165 Sources of error Fallacies

166 Syllogism Enthymeme

167 Hypotheses

168 Argument and persuasion

169 Analogy Correspondence
See also 219 Natural theology

170 Ethics: theoretic and applied

Many topics in applied ethics occur also in law, specially in 343 Criminal law
See also 377.2 Ethical education.
.1 .2 Compends .3 Dictionaries .4 Essays .5 Periodicals .6 Societies; Society for ethical culture .7 Study and teaching .8 Polygrafy .9 History

171 Theories Philosofy of ethics

.1 **Authority Will of God Christian**
.2 **Intuition Moral sentiment**
See also 143 Intuitionalism; 156 Intuitiv faculty
.3 **Perfection**
.4 **Happiness Hedonism**
.5 **Utilitarianism**
.6 **Conscience Casuistry**
.7 **Evolutionary or educational**
.8 **Altruism**
.9 **Egoism**

172 State ethics

.1 **Individuals and the state Duties of citizens Patriotism**
See also 320 Political science
.2 **Duties of public offisers** Official corruption
.3 **Relations to church**
See also 261.7 The church; 322 Church and state; 272 Persecutions
.4 **International ethics Peace and war**
See also 341 International law

173 Family ethics

.1 Marriage and divorce See 347.6, Family law
.2 Polygamy and monogamy See 298 Mormonism
.3 Duties of husbands and wives
.4 Infanticide
.5 Duties of parents
.6 Duties of children
.7 Home life
.8 Masters and servants See also 647 Servants; 331 Labor
.9

174 Professional and business ethics

.1 Clergy
.2 Physicians
.3 Lawyers
.4 Merchants Business men
.5 Speculation
.6 Gambling See also 175
.7 Compact Promis
.8 Employers and employd
.9

175 Ethics of amusements For amusements, see 790

.1 Public shows and diversions Rinks, circuses, etc.
.2 Theater Opera Private theatricals
.3 Dancing Balls Round dances
.4 Games of skill Billiards, chess, etc.
.5 Games of chance Cards, dice, etc.
.6 Prize fighting Animal fighting Bull, dog, cock, etc.
.7 Racing Horse Boat Pedestrian Wheel, etc.
.8 Novel reading
.9 Betting Poolselling See 174.6

176 Sexual ethics

.1 Chastity
.2 Celibacy See also 254 Celibacy of clergy
.3 Continence
.4 Solitary vice
.5 Social evil See also 258 Parish care of fallen
.6 Adultery
.7 Immoral art
.8 Immoral literature
.9

177 Social ethics

.1 Curtesy
See also 395 Etiquet
.2 Conversation Gossip
See also 374.1 Self culture
.3 Truth Slander Flattery
.4 Dress Display Sumptuary legislation
.5 Caste Class feeling Welth and rank
See also 294 Brahmanism; 331 Capital and labor
.6 Friendship Courtship Coquetry
.7 Philanthropy Humanity
.8 Solitude vs social obligations
.9

178 Temperance Stimulants and narcotics

General works on Temperance may be divided by form into .04 Essays; .05 Periodicals; .06 Societies; .07 Teaching; .09 History. See also 613.3 Beverages; 613.8 Nervous system; 331.84 Laboring classes

.1 Use of intoxicating drinks Beer drinking Medicinal use
.2 Total abstinence vs temperance
.3 Social drinking Wine at table Treating
.4 Traffic in intoxicating drinks License High license
See also 336.27 Taxation
.5 Prohibition
See 329.81 Prohibition party
.6 Reformatories Inebriate asylums, etc.
Discussion; for institutions themselvs see 362
.7 Tobacco
.8 Opium Hashish Chloral Ether and other drugs
.9 Gluttony and other intemperance

179 Other ethical topics

.1 Morals of the press Newspapers
.2 Cruelty to children
Including general humane societies covering work for both children and animals. See also 173.4 Infanticide; 331.3 Labor of children
.3 Cruelty to animals
.4 Vivisection
See also 614.22 Vivisection laws
.5 Oaths
.6 Heroism Bravery Cowardis
.7 Life Dueling Suicide
See also customs, 394.8 Dueling
.8 Pride Covetousness Envy Anger Sloth Jelousy Hate and other vices
.9 Humility Liberality Gentleness Patience Diligence Charity Modesty, and other virtues

180 Ancient Philosophers.

See 921.9, Biography of Ancient Philosophy.

181 Oriental Philosophers.

.1 Chinese. Confucius. Mencius.
.2 Egyptian.
.3 Jewish. Kabala. Philo. Maimonides.
.4 Indian. Gymnosophists.
.5 Persian. Sufism.
.6 Chaldæan.
.7 Sabeism.
.8 Phœnician.
.9 Syrian.

182 Early Greek Philosophers.

.1 Ionic. Thales. Anaximander. Anaximenes.
Materialistic. Things are as they seem.
.2 Italic or Pythagorean. Half Idealistic.
.3 Eleatic. Xenophanes. Parmenides. Zeno. Melissus.
Idealistic. Existence denied. Thought is the only reality.
.4 Heraclitus.
.5 Empedocles.
.6 Atomistic.
.7 Democritus.
.8 Anaxagoras.
.9 Other Early Greek.

183 Sophistic and Socratic Philosophers.

.1 Sophistic. Protagoras. Gorgias. Prodicus. Hippias.
.2 Socrates.
.3 Socratic.
.4 Cynic. Antisthenes, Diogenes, Crates, etc.
.5 Cyrenaic. Aristippus, Hegesias, etc.
.6 Megaric. Euclid, Eubulides, Diodorus, etc.
.7 Elian and Eretrian. Phedo, Menedemus, etc.

184 Platonic. Older Academy.

.1 Plato. .2 Speusippus. .3 Xenocrates.

185 Aristotelian. Peripatetic. Lyceum.

.1 Aristotle. .2 Theophrastus. .3 Eudemus. .4 Strato.

186 Pyrrhonist. New Platonist.

.1 Pyrrhonism. Scepticism. Pyrrho, Timon.
.2 New Academy. Arcesilaus, Carneades. Plutarch.
See 888.8.
.3 Eclecticism. Cicero. See 875.4.
.4 Alexandrian. Neo-Platonic. Philo, Plotinus, Proclus, Porphyry, Iamblichus. See 239.4, Apologetics; 273.1.

187 Epicurean. Epicurus. Lucretius. See also 871.1.

188 Stoic.

.1 Zeno.
.2 Cleanthes.
.3 Chrysippus.
.4 Panaetius.
.5 Posidonius.
.6 Seneca. See 878.5; 872.6.
.7 Epictetus.
.8 Marcus Aurelius.

189 Early Christian and Medieval Philosophers.

.1 Gnosticism. See 273.1, Basilides, Marcion. See 273.2, Manicheism.
.2 Patristic. Tertullian. Augustine. Clement. Origen.
.3 Arabian. Avicenna, Averroes.
.4 Scholastic. Scotus, Aquinas, Anselm, Abelard.
.5 Mystic. Reuchlin, Cornelius Agrippa, Paracelsus, Servetus, Böhme.

190 Modern Philosophers.

See also 921.1 to 921.8, Biography of Philosophy, or lives may be put here with works, with references only under 920, Biography. Philosophical works are put here, not under the School or System to which the author may be thought to belong. See note under 140.

191 American Philosophers.

These numbers may be left blank for future use or used for the well known names among American Philosophical writers given below.

.1	Jonathan Edwards.	1703–1758.
.2	O. A. Brownson.	1803–1876.
.3	Ralph Waldo Emerson.	1803–1882. See 814.36.
.4	Laurens P. Hickock.	1798–1888.
.5	James McCosh.	1811–
.6	Noah Porter.	1811–1892.
.7	Francis Bowen.	1811–1890.
.8	William T. Harris.	1835–
.9	Other American Philosophical Writers.	

192 British philosofers

.1	Bacon	1561–1626	See 144 Empiricism
.2	Locke	1632–1704	See 145 Sensationalism
.3	Berkeley	1685–1753	See 141 Idealism
.4	Hume	1711–1776	See 824.64 English essays
.5	Reid	1710–1796	See 143 Intuitionalism
.6	Dugald Stewart	1753–1828	
.7	John Stuart Mill	1806–1873	
.8	Spencer	1820–1903	
.9	Other British philosofic writers		

193 German philosofers

.1	Leibnitz	1646–1716	
.2	Kant	1724–1804	See 142 Critical philosofy
.3	Fichte	1762–1814	See 141 Idealism
.4	Schelling	1775–1854	
.5	Hegel	1770–1831	
.6	Schleiermacher	1768–1834	
.7	Schopenhauer	1788–1860	See 149.6 Pessimism
.8	Lotze	1817–1882	
.9	Other German philosofic writers		

194 French philosofers

.1	Descartes	1596–1650	See 144 Empiricism
.2	Malebranche	1638–1715	
.3	Condillac	1715–1780	
.4	Rousseau	1712–1778	
.5	Diderot	1713–1784	
.6	Lamennais	1782–1854	
.7	Cousin	1792–1867	See 148 Eclecticism
.8	Comte	1798–1857	See 146 Positivism
.9	Other French philosofic writers		

195 Italian philosofers

196 Spanish philosofers

197 Slavic philosofers

198 Scandinavian philosofers

199 Other modern philosofers

The heds of 180–199 are for discussions of the systems of these men and for their philosofic works not clearly belonging elsewhere, not for *all* their works. Mill's Logic is 160 not 192.7, but his *complete works* bound together are 192.7. Plato and Aristotle have individual numbers, 888.4 and .5, where their works are more useful than in 184–5 because of their classic prominence.

Religion

200 Religion General works

201 Philosophy. Theories. Methods.

202 Compends. Outlines. Systems.

203 Dictionaries. Cyclopedias.

204 Essays. Lectures. Disputations. Addresses.
See 252, Sermons.

205 Periodicals. Magazines. Reviews.

206 Societies. Transactions. Reports, etc.
General conferences. Societies whose work is largely done by paid officers, most members merely contributing money; e. g. Pan-evangelical alliance, Bible and tract societies. Put history, reports, etc. here, but their publications of course go with subject.

207 Education. Theological seminaries. Training schools. Divided like 940–99.

208 Polygraphy. Collected works. Extracts, etc.
Many collections go under a more specific head; e. g. 240.

209 History of religion.

210 Natural theology

211 Deism and atheism.
Scepticism. Infidelity. Rationalism, etc.
See 239, Apologetics; 231, God; 273.8, Agnostic heresy; 149.7, Agnosticism.

212 Pantheism. Theosophy. See 147, Pantheism; 129.5, Origin of soul.

213 Creation. See 113, Cosmology. Evolution. See 575, Science.

214 Providence. See 231.5, Doctrines. Theodicy. See 231.8, for Christian view.

215 Religion and science. See 239.8, Apologetics.

216 Evil. Depravity. See 149.6, Pessimism; 233.2, Sin.

217 Prayer. Prayer gauge. See 264.1, Prayer; 248, Personal religion.

218 Future life. Immortality. Eternity.
See 237, Future state; 128, The soul.

219 Analogies. Correspondences. See also 169, Logic.

220 Bible. General works.

For similar works limited to Old or New Testament, or individual books, see specific head below.

.1 **Canon. Inspiration. Prophecy.**

.2 **Concordances. Analyses.**

.3 **Dictionaries. Cyclopedias.**

.4 **Original texts and early versions. Codices.**

Heads for both old and new testaments are given, as they are also used for 221 and 225.

.42, Chaldee; .43, Syriac; .44, Hebrew; .45, Samaritan; .46, Other Semitic. Ethiopic, Arabic, etc.; .47, Latin. Itala. Vulgate; .48, Greek. Septuagint Aquila. Symmachus. Theodotion. Hexapla; .49, Other early versions. Armenian. Coptic, Gothic, etc. 220.4 and 220.5 are pure texts. A Hebrew bible with commentary goes in 220.7, with reference from 220.44.

.5 **Versions of Bible. Polyglots.** Divide by languages, like 400.

These are translations from the original Hebrew and Greek. Translations from other early texts go with them in 220.4; e. g. an English translation of the Syriac goes in 220.43.

.6 **Hermeneutics. Exegesis. Symbolism. Typology.**

.7 **Commentaries on whole Bible, and annotated editions.**

For Notes, etc., on Portions of the Bible, see the most specific head in 221-229.

.8 **Special topics.**

Divided like General Classification; e. g. Natural Science of the Bible in 220.85.

.9 **Biblical Geography and History.**

.91, Biblical geography, description, etc.; (see 915.69, 913.33, Palestine); .92, Scriptural biography, (see also 922.1; 232.9, Lives of Christ); .93, Antiquities, archæology; (see also 296, Jewish religion; 933, History of Jews); .94, Chronology; .95, History, see 933, Jews.

221 Old Testament. Texts. Introductions, etc.

Divided like 220, e. g. 221.7. Commentaries on O. T.

222 Historical books.

.1 **Pentateuch.**

.11, Genesis; .12, Exodus; .13, Leviticus; .14, Numbers; .15, Deuteronomy; .16, Decalogue.

.2 **Joshua.**

.3 **Judges and Ruth.**

.4 **Samuel.**

.5 **Kings**

.6 **Chronicles.**

.7 **Ezra.**

.8 **Nehemiah.**

.9 **Esther.**

223 Poetical books.

.1 **Job.**

.2 **Psalms.**

.3 **Authorship and Chronology.**

.4 **Special groups.**

Messianic; Greater Hallel; Lesser Hallel; Vesper Psalms; Penitential, 6, 32, 38, 51, 102, 130, 143; Hebraic Five Books, Ps. 1-41; 42-72; 73-89; 90-106; 107-150.

.5 **Liturgic use by Christians.**

See 264.038, Anglican psalter; 245, Hymnology.

.6 **Commentaries on Psalms.**

.7 **Proverbs.**

.8 **Ecclesiastes**

.9 **Song of Solomon or Canticles.**

224 Prophetical Books.

.1 **Isaiah.**

.2 **Jeremiah.**

.3 **Lamentations.**

.4 **Ezekiel.**

.5 **Daniel.**

.6 **Hosea.**

.7 **Joel.**

.8 **Amos.**

.9 **Other Minor Prophets.**

.91 Obadiah.

.92 Jonah.

.93 Micah.

.94 Nahum.

.95 Habakkuk.

.96 Zephaniah.

.97 Haggai.

.98 Zechariah.

.99 Malachi.

225 New Testament. Texts, Introductions, etc.

Divided like 220.

226 Gospels and Acts.

.1 **Harmonies.**

.2 **Matthew.**

.3 **Mark.**

.4 **Luke.**

.5 **John.**

.6 **Acts of the Apostles.**

.7 **Miracles.**

.8 **Parables.**

.9 **Lord's prayer.**

227 Epistles.

.1 **Romans.**

.2 **1 Corinthians.**

.3 **2 Corinthians.**

.4 **Galatians.**

.5 **Ephesians.**

.6 **Philippians.**

.7 **Colossians.**

227.8 Other Pauline Epistles.

.81 1 Thessalonians.
.82 2 Thessalonians.
.83 1 Timothy.
.84 2 Timothy.
.85 Titus.
.86 Philemon.
.87 Hebrews.

.9 Catholic Epistles.

.91 James.
.92 1 Peter.
.93 2 Peter.
.94 1 John.
.95 2 John.
.96 3 John.
.97 Jude.

228 Apocalypse.

229 Apocrypha.

.1 Esdras 1, 2.
.2 Tobit, Judith, Esther.
.3 Wisdom.
.4 Ecclesiasticus.
.5 Baruch, Epistle of Jeremy, Song of the three Children.
.6 Story of Susanna, History of Bel and the Dragon, Prayer of Manasses.
.7 Maccabees 1, 2, 3,4.
.8 Pseudo Gospels.
.9 Apostolic Epistles and Canons. Clementines. See 281.1.

230 Doctrinal. Dogmatics. Theology.

General Doctrinal Works may be subdivided by churches like 280–289. See 252.3.

231 God. Unity. Trinity.

.1 God the Father, Creator.
.2 God the Son, Redeemer.
.3 God the Holy Ghost, Giver of Life, Sanctifier.
.4 Divine Attributes. Omniscience, Omnipresence, Omnipotence.
.5 Divine Providence. See 214.
.6 Divine Love and Wisdom.
.7 Divine Law and Miracles.
.8 Theodicy. Vindication of God's justice in permitting evil. See also 214, Nat. theology.
.9

232 Christology.

.1 Incarnation. Messiah.
.2 Logos, the Word of God.
.3 Atonement.
.4 Sacrifice.
.5 Resurrection.
.6 Second Coming. See also 289.3 Second Adventists.
.7 Judgment.
.8 Divine Humanity.
.9 Lives of Christ.

233 Man.

.1 The Fall.
.2 Sin.
.3 Moral and Spiritual Heredity. See Biology, 575.1; 136.3; 129.2.
.4 Accountability.
.5 Natural and Spiritual Body.
.6 Personality. See 126, Metaphysics.
.7 Freedom. See 234.9; 123; 159.
.8
.9

234 Salvation. Soteriology.

.1 Grace.
.2 Faith.
.3 Redemption.
.4 Regeneration.
.5 Repentance.
.6 Obedience.
.7 Justification.
.8 Sanctification.
.9 Predestination and Freewill. See 233.7; 123; 159.

235 Angels. Devils. Satan.

236 Eschatology. Last Things.

.1 Death.

.2

.3 Millennium.

.4 Intermediate State. Sheol. Hades.

.5 Purgatory.

.6 Paradise. Limbus patrum.

.7 Limbo. Limbus infantum.

.8 Resurrection.

.9 Judgment. See 232.7, Christology.

237 Future State. See 218, Natural theology.

.1 Eternity.

.2 Immortality.

.3 Conditional Immortality.

.4 Heaven.

.5 Hell. Gehenna.

.6 Retribution. Future Punishment.

.7 Eternal Punishment. See 289.1, Universalists.

238 Creeds. Confessions. Covenants. Catechisms

Divided more closely if wished like 280–289; e. g. 238.19, Greek church.

.1 Apostles', Nicene, and Athanasian Creeds.

.2 Creed of Pius IV. (Trent); and later Roman.

.3 Anglican. 39 Articles, A. D. 1551. See 264.037, Liturgy.

.4 Continental Prot. Lutheran. Calvinist. Dort.

.5 Westminster. Saybrook. Cong'l. Cambridge. Savoy.

.6–9 Of other Sects. Divided like 286–289.

239 Apologetics. Evidences of Christianity.

If preferred, courses of Apologetic lectures may be kept together; e. g. 239.01, Bampton; .02, Boyle; .03, Hulsean; .04, Bohlen; .05, Paddock; .08, Miscellaneous. More usefully each book is classed under the most specific head that will contain it.

.1 Apostolic Age.

.2 Against the Jews.

.3 Against the Heathen.

.4 Against the Neo-Platonists. See 273.1, Gnostic heresy.

.5 Against the English and Scotch Deists. See 211, Deism.

.6 Against the French Encyclopedists.

.7 Against the Rationalists.

See 211, Natural theology; 273.8, Agnostic heresy; 149.7, Agnosticism.

.8 Against the Scientists. For non-Christian view, see 215.

.9 Other Special Denials.

240 Devotional. Practical.

241 Didactic. For Catechisms, see 238.

242 Meditative. Contemplative. See 248, Personal religion.

.1 Thomas à Kempis.

243 Hortatory. Evangelistic.

244 Miscellany. Religious novels, Sunday-school books, allegories, etc.

But class Bunyan in 823.42, because of his literary prominence.

245 Hymnology. Religious poetry.

See 223.5, Psalms; 264.038, Psalter.

Divided by languages, like 800, and then by churches, like 280, if denomination is clearly marked.

246 Ecclesiology. Symbolism. Religious art.

246-7 cover religious bearings. For art side see 700.

.1 Byzantine and Gothic ecclesiology.

See 723, Mediæval architecture; 726, Religious architecture.

.2 Primitive church and heathen art.

.3 Images in churches. Iconoclasts.

.4 Protestantism and religious art.

.5 Emblematic and cryptographic art. Catacomb symbols.

.6 Liturgic symbolism. Altar. Colors. Lights.

See 264, Public worship.

.7 Evangelistic use of music and art, pictorial and plastic. Della Robbias.

.8 Eucharistic music. Ambrose. Gregory the Great. Later development. See 783, Sacred music; 264.2, Public worship.

.9

247 Sacred furniture. Vestments. Vessels. Ornaments, etc.

.1 Font. Baptistery. Lectern. Pulpit.

.2 Tabernacle. Rood screen. Reredos.

.3 Sculpture and mortuary design.

See 718, Monuments; 726.8, Mortuary buildings; 730, Sculpture.

.4 Illumination. Mosaics. Enamels. Stained glass.

See 745, Ornamental design; 748, Stained glass.

.5 Fresco and religious painting. See 750, Painting.

.6 Pallium. Mitre. Crozier. Ring.

.7 Vestments and altar cloths.

.8 Eucharistic vessels. See 265.3, Sacraments.

.9 Ornaments, etc. Crucifix. Banners. Thurible. Incense.

248 Personal religion. Asceticism. See also 273.2, Ascetic heresy.

249 Family devotions. See 264, Public worship.

250 Homiletic. Pastoral. Parochial.

251 Homiletics. Preaching. See 264.6, Public worship.
Divided like 252, for matter *about* special kinds of sermons.

252 Sermons.
The collected sermons on various topics under 252 are divided by churches and sects, like 280. The sermons on specific topics are more useful, like other pamphlets, classed with the topics, e. g. a sermon on family devotions is 249, not 252.4; on strikes, in 331.89. The nine heads below are for collections and cross references, but can be used for separate sermons if the classifier prefers.

.1 Episcopal charges. Pastorals.
.2 Controversial. Polemic.
.3 Doctrinal. Dogmatic. See also 230, Dogmatics.
.4 Practical. Devotional.
.5 Academic. Educational. See also 378.7, Baccalaureates.
.6 Political. Public occasions and duties.
.7 Consecration. Ordination.
See also 265.4, Ordination; 265.9, Consecration; 262.16, Polity.
.8 Expository.
.9 Memorial. Obituary. Biographical. Historical.
The memorial of a special church goes with that church in 280. See 920, Biography.

253 Pastoral visitations, evangelistic.

254 Clerical support. Celibacy.
See also 176.2, Sexual ethics; 248, Asceticism; 613.89, Hygiene.

255 Brotherhoods. Sisterhoods.
In the parish. For Monastic orders, see 271.

256 Societies for parish work. Guilds. Sodalities.
Local societies. Discussion of desirability of such work. For general societies see 206 and 267.

257 Parochial schools. Libraries, etc.
See 377.5, Education; 027.8, Parish libraries.

258 Parish care of sick, fallen, etc.
See 265.8, Ministry of sick; 176.5, Social evil.

259 Other ministrations and work.

260 Church. Institutions and work.

261 The church. Its influence on morals, civilization, etc.
.1
.2
.3 Church vs. barbarism.
.4 Church and morals.
.5 Church and intellectual development. See 377.8, Education.
.6 Church and civilization.
.7 Church and civil government. See 172.3, State ethics; 322, Church and state.
.8 National churches vs. organic unity.
.9

262 Ecclesiastical polity.
.1 Ministry.
.11 Apostolic succession.
.12 Episcopate.
.13 Papacy. Primacy. Papal supremacy; infallibility, 18 July 1870.
.14 Priest. Presbyter. Minister. Lay ministry.
.15 Deacon. Deaconess. Evangelist.
.16 Orders. Ordination. See 265.4, Sacraments; 252.7, Sermons.
.17 Episcopal.
.18 Presbyterian.
.19 Congregational.
.2 Parish. Congregation. See 250 for Parochial work.
.3 See. Diocese. Cathedral system.
.4 Council. Synod. Presbytery. Congregation. Convention
Polity only, here. Proceedings go with churches, 281-9.
.5 General or œcumenical council. See also 270.2.
.6 Canons. Decrees.
.7 Traditions.
.8 Authority. Church and ministerial. Private judgment.
.9 Discipline. Courts. Trials. For Canon law see 348.

263 Sabbath. Lord's day. Sunday.
.1 Hebraic sabbath.
.2 Modern sabbath. Seventh day.
.3 Lord's day. Christian Sunday.
.4 Sunday observance.
.5 Work.
.6 Amusement.
.7 Opening libraries and museums.
See also 024.4, Library rules.
.8 Sunday laws.
.9

264 Public worship. Divine service. Ritual
See also 246, Ecclesiology; 247, Sacred furniture. General works are divided by Churches like 280. Under various Churches the services may be further divided, as e. g.

.03 Anglican and American P. E. ritual.
.031 Calendar. Festivals and fasts. See also 529.6, Chronology.
.032 Lectionary and rubrics.
.033 Morning prayer. Litany.
.034 Evening prayer. Vespers. Compline.
.035 Sacraments, ordinances, and services. See also 265, Sacraments.
.036 Collects, epistles and gospels.
.037 Ordinal. Articles. Creeds. See also 238.3, Creeds, doctrines.
.038 Psalter and other. See 223.5, Psalms; 245, Hymnology.
.039 History of successive prayer books.

264.1 **Prayer. Extempore. Liturgic.**
See also 248–249, Private and Family Prayer.

.2 **Music. Singing. Instrumental. Praise Meeting.**
See also 783, Sacred Music; 246.7, 246.8, Ecclesiology.

.3 **Scripture Readings.**

.4 **Antiphonal or Responsive Readings.**

.5 **Confessions of Faith. Creeds.** See also 238, Creeds.

.6 **Sermons. Exhortations. Instructions.**
See also 251 and 252, Preaching and Sermons.

.7 **Prayer and Conference Meetings.**

.8 **Class and Covenant Meetings. Love Feasts.**

.9 **Sacramentals.** See also 265, Sacraments.

265 Sacraments. Ordinances.

.1 **Baptism.**

.2 **Confirmation. Church Fellowship.**

.3 **Eucharist. Holy Communion. Sacrifice.**

.4 **Holy Orders. Ordination.** See also 262.16, Ministry; 252.7, Sermons.

.5 **Marriage.** See 173, Ethics of the Family.

.6 **Penance. Confession. Absolution.**

.7 **Extreme Unction. Viaticum.**

.8 **Ministry of Sick and Dead. Faith Cure. Healing. Burial.**

.9 **Consecration. Dedication.** See 262.16, Ordination; 252.7, Sermons.

266 Missions. Home and Foreign.

Subdivided by Churches, like 280. . See also 377.6, Missionary schools.
Missions in special countries or places, including those of all churches, go under the geographically divided Religious History, 274–279, with references under 266.

267 Associations.

General societies demanding of members active personal work. For local societies see 256. For Bible, tract, and similar general societies see 206.

.1 **Religious societies of both men and women.**

.11 U. S. Christian commission.

.15 Salvation army.

.2 **Religious societies of men.**
For Y. M. C. A. see 267.3; missionary societies, 266; ministerial education societies, 207: Bible societies, 206.

.21 17th century or earlier. } May be divided by countries like 940–99.

.22 18th century. }

.23 19th century; inter- and undenominational.

.231 In educational institutions. Divided like 940–99. If preferred, cancel .231 and put all together in .234–9. For work of Y. M. C. A. see 267.361.

.232 "Nasmith" societies.

.233 Young men's Christian unions; i. e. not "evangelical," etc.

.234–.239 Others. Divided like 940–99.

.24 19th century; denominational.

.241 In educational institutions. Divided like 282–289. If preferred, cancel .241 and put all together in .242–9. For work of Y. M. C. A. see 267.361.

.242–.249 Others. Divided like 282–289.

.3 **Young Men's Christian Associations.**
Active membership confined to members of "evangelical" churches.
To shorten the number, X may be used for 267.3 throughout; i. e. X 19 would mean "Work in small towns."

267.31 **Objects, field and extension.**

.311 Need and objects.

.312 Limits; — for and by young men and distinctively religious.

.313 Relation to the church.

.314 International work. } Methods only. For history, reports and periodicals see 267.39; for secretaries see 267.341.

.315 National work. }

.316 State work. }

.317 District work. }

.318 Work in towns able to support a general secretary. }

.319 Work in small towns.

.32 **Buildings.** See library buildings 022.

.321 Location. Provision for growth.

.322 Materials and protection against fire.

.323 Plans. Number, size and arrangement of rooms.

.324 Reception, social rooms and parlors.

.325 Library. Reading, lecture, and class rooms. See 022.

.326 Administration and special rooms. Boys' rooms.

.327 Physical culture rooms.

.328 Lighting, heating, and ventilation.

.329 Fixtures, furniture, and fittings.

.33 **Organization.**

.331 Incorporation. Constitution and by-laws.

.332 Branches and sub-organizations. Including women's work for young men.

.333 Managers. Officers serving without pay.
1, Trustees (in charge of real estate).
2, Directors.
3, President.
4, Treasurer.
5, Recording secretary.
6. Executive or Corresponding secretary.

.334 Standing committees.
1, Importance; enlistment and composition.
2, Principles and methods of organization.
3, Names and duties. See also Department work 267.35.

.335 Membership.
1, Membership committee.
2, Classes of membership.
3, Securing and retaining members.
4, Development of active members.
5, Associate membership and its relations.
For members' meeting see Social work, 267.3544.

.34 **Salaried officers. Duties, qualifications, training.**

.341 General secretary and assistants. Including international and state secretaries. See also 267.314–.316.
1, Office and work.
2, Qualifications.
3, Relationship: 31, To churches and pastors: 32, To officers, directors, and committees; 33, To other employees; 34, To the members; 35, To the religious work; 36, To the business community; 37, To his fellow secretaries.
4, Personal hints: 41, considering a call and beginning work; 42, Spiritual and intellectual growth and health; 43, Office work, system, and economy; 44, Personal appearance and conversation; 45, Ladies' company; 46, "Secretarialism."

267.342 Librarian and assistants. May be divided like 267.341. See also Library administration, 025 and 267.3532.

·343 Physical director and assistants. May be divided like 267.341. See also 267.355 and 613.7.

·344 Other salaried officers.

·345 Training; need and methods, demand and supply.

·346 Training schools.

·347 Training by apprenticeship.

·348 Institutes. } Methods only; for reports see 267.39.

·349 Conferences. }

·35 **Local work by departments.**

·351 Business department.
1, Finance committee.
2, Annual budget.
3, Endowments and other sources of income.
4, Solicitation, collection and disbursement.
5, Financial book-keeping.
6, Debt, taxes, &c.
7, Records and statistics.
8, Advertising, including anniversaries and parlor conferences.
9, Printed matter. Including bulletin, prospectus, etc.

·352 Religious department.
1, Committees.
2, Individual Bible study. Methods and helps.
3, Bible classes.
4, Training classes. Personal work.
5, Bible readings. Song services.
6, Evangelistic meetings.
7, Social religious meetings.
8, Other meetings in the rooms.
9. Work outside the rooms. In public institutions, sermons to young men, distribution of religious papers, invitations, etc.

·353 Educational department.
1, Committees.
2, Library. See 267.342 and 025.
3, Reading room.
4, Classes.
5, Lectures and talks.
6, Literary societies.

·354 Social department.
1, Committees.
2, Reception committee.
3, Social rooms and fittings. See 267.32.
4, Receptions. Socials. Entertainments.
5, Music.
6, Amusements. Including games of skill. See also 794.

267.355 Physical department.
1, Committees.
2, Aim and benefit of department. For Physical director see 267.343; Equipment, methods, etc., 613.7.

·356 Information, relief, etc., department.
1, Boarding house bureaus.
2, Employment bureau.
3, Savings bureau.
4, Visitation of sick.
5, Destitute young men.

·357 Boys' department.
1, Committees.
2, Religious work.
3, Educational work.
4, Social work.
5, Physical work.
6, Information, relief, etc.

·358

·359 Janitor's department. Building; care, cleaning, safety. Police.

·36 **Work among special classes.**
Y. M. C. A. only; other religious societies of men go in 267.2.

·361 College and school.
1, History and methods in general.
2, International reports. Including Northfield meetings.
3, International periodicals.
For state and sectional reports and periodicals see 267.39.

·362 Railroad employes.
1, History and methods in general.
2, International reports.

·363 Commercial travelers.

·364 Foreign-speaking. Divided like 400; e. g. 3, German, 4, French, 5, Italian, etc.

·365 Colored men.

·366 American Indians.

·367 Soldiers. U. S. Christian commission, 267.11.

·368 Sailors.

·369 Other. Policemen, firemen, fishermen, lumbermen, mutes, etc.

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·39 **History, reports, periodicals, etc.** For methods see 267.314–.319.

·391 International history.

·392 International reports, etc. } Reports, etc., of international college and railroad work go in 267.361–.362.
1, Reports.
2, Other pamphlets.

·393 International periodicals. International college periodicals, 267.3613.

·394–.399 Divided like 940–999.

267.4 **Religious societies of women.**

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.43 10th century; inter- and undenominational

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.432 Women's Christian associations.

Divided like 267.3. To shorten the number, W may be used for 267.432 throughout; e. g. W 1 would mean "Objects, field and extension."

.433 King's daughters.

.44 19th century; denominational. Divided like 282–289.

.5 **Young Women's Christian Associations.** Active membership confined to members of "evangelical" churches.

Divided like 267.3–.399.

To shorten the number Y may be used for 267.5; e. g. Y 3, Organization, instead of 267.53.

.6 Religious societies of young people. For Sunday schools see 268.

.61 Inter- and undenominational.

.611

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.613 Young people's society of Christian endeavor.

1, Reports, etc.

2, Periodicals.

.62 Denominational. Divided like 282–289.

.7 **Religious societies of boys.** Not Y. M. C. A. Divided like 267.6.

.8 **Religious societies of girls.** Not Y. W. C. A. Divided like 267.6.

9.

268 Sunday Schools.

269 Revivals. Retreats. Parish Missions.

270 Religious History.

Ancient Period. To Conversion of Germans.

See 281.1–281.4, for collected works of early theological writers, etc. 270 is for religious history of these *periods*.

For religious history of special countries, either general or for special periods, see country divisions, 274–279; e. g. English reformation, 274.2.

.1 **Apostolic. Nativity to Constantine.**

.2 **Period of Œcumenical Councils. Centralization. A. D. 325-787.**

The Greek Church acknowledges these seven Councils as really Œcumenical. Anglicans generally recognize only the first six. See also 262.5, Polity.

.21	First of Nice,	A. D. 325.
.22	First of Constantinople,	381.
.23	First of Ephesus,	431.
.24	Chalcedon,	451.
.25	Second of Constantinople,	533.
.26	Third of Constantinople,	681.
.27	Second of Nice,	787.

Mediæval Period. Charlemagne to Luther.

270.3 **Charlemagne. Papacy vs. Empire. A. D. 787–1054.**

Church planted among the Germans. Feudalism. Great schism, east *vs.* west, 1054.

.4 **Hildebrand. Roman Supremacy. A. D. 1054–1200.**

Temporal Power. Scholasticism. First three Crusades.

.5 **Later Mediæval. Renaissance. A. D. 1200–1517.**

Innocent III. Papal Schism. Avignon. Nominalism *vs.* Realism. Greek Church under Moslems. Education. Arts. Inventions. Pre-Reformation.

Modern Period. Reformation to present.

From A. D. 1517, Theology in Europe is in three types, viz: Roman, Lutheran, and Reformed or Calvinistic.

.6 **Reformation. Counter-Reformation. A. D. 1517–1648.**

Council of Trent, A. D. 1545–63. Diet of Augsburg. Luther. Melancthon. Calvin. Knox. Religious Wars. Jesuit Missions in East. See also Reformation in England, etc., 274.2.

.7 **Peace of Westphalia to French Revolution. A. D. 1648–1789.**

Union of Church and State. Deism. Materialism.

.8 **Modern. Rationalistic. A. D. 1789–**

Holy Alliance. Greek Church in Russia. Atheism. Pantheism. Protestant Missions.

271 Monastic Orders.

See also 255, Brotherhoods; 377.3, Monastic schools.

.1	**Benedictines.**	Founded A. D.	529.
.2	**Dominicans.**	" "	1170.
.3	**Franciscans.**	" "	1182.
.4	**Augustinians.**	" "	1256.
.5	**Jesuits.**	" "	1540.

.6 **Passionists. 1720. Redemptorists. 1732.**

.7 **Lesser Roman Orders**

.71	Carthusians.	Founded A. D. 1086.
.72	Cistercians.	" " 1098.
.73	Carmelites.	12th Century.
.74	Trappists. 1150. Capuchins.	1525.
.75	Sulpicians.	1642.
.76	Oblates.	
.77	Lazarists.	1624.
.78	Christian Brothers.	18th Century. De la Salle.
.79	Other Lesser Roman Orders.	

.8 **Anglican Brotherhoods.**

.9 **Sisterhoods.**

.91	Sisters of Charity. Vincent de Paul.	Founded A. D. 1629.
.92	Sisters of Mercy. Augustinian.	" " 1831.
.93	Ladies of the Sacred Heart. Jesuit	" " 1800.
.94	Sœurs de bon Secours. Nurses.	
.95	Little Sisters of the Poor.	
.96	Contemplative. Cloistered Nuns.	
.97	Other Roman Sisterhoods.	
.971	Carmelites.	
.972	Second of St. Dominick.	
.973	Franciscans.	
.974	Ursulines.	A. D. 1537.
.975	Of the Visitation.	" 1610.
.976	Of St. Joseph.	" 1650.
.977	Of the Presentation.	" 1777.
.98	Anglican Sisterhoods.	
.99	Other Protestant Orders. Deaconesses. (Kaiserwerth.)	

272 Persecutions.

See also special sects, 280; and history of special countries, 940–999.

.1 Apostolic Church by Imperial Rome. 1st to 4th Century.

.2 Heretics, by Inquisition or Holy Office. Since 1470. ,,

.3 Waldenses and Albigenses. 11th and 12th Cent. By R.Ch.
See also 284.4, Protestant sects.

.4 Huguenots. French Protestants. St. Bartholomew, 1572. Edict Nantes, 1598, Revocation, 1685. By Rom. Ch.
See also 284.5, Protestant sects.

.5 Molinists and Quietists. Close of 16th Century to destruction of Port Royal, A. D. 1709. By Roman Catholics.
See also 273.7, Heresies.

.6 Marian. Anglican Reformers by Mary. A. D. 1553–8. ,,

.7 Elizabethan. Later 16th Century. Rom. Ch. by Anglicans.

.8 Quakers. Baptists. Witches. Later 17th Cty. By Puritans.
See also 133.4, Witchcraft.

.9 Other Persecutions.

273 Heresies.

For the history of special Doctrines see 230–239, Doctrinal Theology.

.1 Gnostic.—Reaction of Pantheism and Heathen Philosophy on Christianity. 1st three Centuries.
See also 189.1, Gnostic philosophy; 186.4, Neo-Platonism; 239.4, Apologetics.

.2 Manichæism.—Parsee Dualism. Opposition of Good and Evil. Mystic. Ascetic. 3d Century.
See 149.3, Mysticism; 248, Asceticism.

.3 Sabellian.—That the Trinity is not of persons, but of successive manifestations. About 250 A. D. (Held by Schleiermacher, Bushnell, Swedenborg.)

.4 Arian.—Denying Divinity of Christ. 4th Century.

.5 Pelagian.—Denying Original Sin and Supernatural Grace. 5th Century.

.6 Antinomian.—Denying force of Law, under Gospel Dispensation. 16th Century.

.7 Molinist and Jansenist. Pietists. Port Royal.—Augustine's doctrine of Grace, vs. the Roman doctrine of Good Works. A. D. 1580–1700.

.8 Agnostic.—Denying possibility of Revelation. Holding that Theology and the Supernatural lie without the domain of Human Knowledge.
See also 149.7, Philosophy; 211, Atheism; 239, Apologetics.

.9 Minor Heresies.

274 to 279 General Religious History. By Countries.

274–279 is divided geographically like 940–999.

280 Christian Churches and Sects.

281–289.8 may be subdivided where needed like 940–999.

281 Primitive and Oriental Churches.

See also 270.1 to 270.3, Early Religious History.

.1 Apostolic Church, to time of Great Schism, A. D. 1054.
Works of Apostolic and Christian Fathers here; use 270 for religious history of these periods. See also 229.9, Apocryphal books.

.2 Primitive Apostolic, to end of First Century.

.3 Ante-Nicene, A. D. 100–325. See also 270.1.

.4 Post-Nicene, A. D. 325–1054. See also 270.2–3.

.5 Oriental Churches.

.6 Armenian.

.7 Coptic.

.8 Nestorian.

.9 Eastern or Græco-Russian or Holy Orthodox Church.
The Great Schism, Mutual Ex-communication, A. D. 1054, separates the Catholic Church into Eastern and Western Churches, which from this time have separate histories.

282 Western or Roman Catholic Church.

Divided geographically like 940–999.

283 Anglican and American P. E. Church.

Divided geographically, when needed, like 940–999; e. g. the Anglican Church in Australia is 283.94; India, 283.54.

284 Continental Protestant Sects. Protestantism.

.1 Lutheran. Reformed. See also 285.7, Reformed church in America.

.2 Calvinist; Zwinglian. See 285, and 286.1.

.3 Hussites. Anabaptists. Leyden. See 286.1.

.4 Albigenses. Waldenses. Vaudois. See 272.3.

.5 Huguenots. See 272.4.

.6 Moravian.

.7 Scandinavian. Swedish.

.8 Old Catholic.
Here are classed those denying Papal Infallibility, or for other cause cut off from Rome, though Catholic in other respects.

.9 Other.

285 Presbyterian. Reformed. Congregational.

.1 Presbyterian Church in America.

.2 Presbyterian Church in Great Britain.

.3 Cumberland Presbyterian.

.4 United Presbyterian.

.5 Reformed Presbyterian.

.6 Minor Presbyterian Sects.

.7 Reformed (Dutch) Church in America. e. g. 285.77471, in N. Y. City.

.8 Congregational.

.9 Puritanism.

286 Baptist.

.1 Calvinistic. .2 Free Will. .3 Seventh Day.

287 Methodist.

.1 Wesleyan Methodist.
.2 Calvinistic Methodist.
.3 Welsh Calvinistic Methodist.
.4 Primitive Methodist.
.5 Primitive Wesleyan.
.6 Methodist Episcopal.
.7 Protestant Methodist.
.8 African Methodist.
.9 Minor Methodist Sects.

288 Unitarian. See 273.4.

289 Minor Christian Sects.

.1 Universalist.
.2 Campbellite or Christian. Disciples.
.3 Adventist. See also 232.6, Second coming of Christ.
.4 New Church or Swedenborgian.
.5 Catholic Apostolic.
.6 Quakers. Friends. Hicksites.
.7 Mennonite.
.8 Shaker. Mystic.
.9 Other Minor Christian Sects.

290 Ethnic. Non-Christian.

291 Comparative and General Mythology.

292 Greek and Roman Mythology.

293 Teutonic and Northern Mythology.

294 Brahmanism. Buddhism. For other Indic Religions, see 299.1.
See also 891.2, Sanskrit literature; 177.5, Caste.

295 Parseeism. Zend Avesta. For other Iranic Religions, see 299.15.
See also 891.52, Zend literature.

296 Judaism. For other Semitic Religions, see 299.2.

297 Mohammedanism.

298 Mormonism. See 173.2, Polygamy.

299 Minor Non-Christian Religions.
Subdivided ethnically like 491–499; e. g. Egyptian religion, 299.31; Afghani religion, 299.158.

Sociology.

300 Sociology in General.

301–309 all have Sociology in General as their subject, but it is treated in these various forms. A periodical on Education goes 370.5, not 305, which is only for periodicals on Sociology in General. In Sociology, most works in these forms are limited to one Division; e. g. to Political Economy, Education, Law, etc. All these have the same subdivision of General Works; i. e. Essays on the various divisions are 310.4, 320.4, 330.4, and so on to Essays on Manners and Customs in General, 390.4. A Zero in any class number shows the subject to be general, not specific.

301 Philosophy. Theories.
See Philosophy of History, 901.

302 Compends, Outlines.

303 Dictionaries, Cyclopedias, etc.

304 Essays, Lectures, Addresses.

305 Periodicals, Magazines, Reviews.

306 Societies, Transactions, Reports.

307 Education, Teaching, Study, etc. See also 370.

308 Polygraphy, Collected Works, Extracts, etc.
Put here collected works of statesmen; e. g. works of Adams, Jefferson, etc.

309 History of Social Science.

310 Statistics.

311 Theory, Methods. Science of.

312 Population. Progress of. Vital Statistics. Births. Deaths. Mortality. Longevity.
See also 614.1, Registration and vital statistics.
Statistics are divided geographically like 930–999; e. g. Population of Maine is 312.741.

313 Special Topics.

314 to 319 General Statistics. Divided geographically like 940–999.
The Statistics of any special matter are put with the subject, e. g. of Domestic Animals in 636, of Short Hand in 653, of French Novels in 843, of Theaters in 792, etc. Statistics too general to be included in any topic are divided by countries. The Statistics of New York City would be 317.471, but the statistics of Medicine in New York would be put with 610, Medicine, i. e., the Topic outranks the Locality.

320 Political science.

.1, Theory of the state; .2, Compends, statecraft; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History of political science, divided like 930–999.

321 Form of state.

This is for discussion of form of state, what should be; for what is, see 342, Constitutional law and 353–354, Administration.

- .1 Family. Patriarchal age.
- .2 Tribes. Clans. Marks. Village communities.
- .3 Feudalism.
- .4 Democracy. Pure; e. g. Athens, Town meeting.
- .5 Aristocracy. e. g. Italian republics. Mediæval German cities.
- .6 Absolute monarchy.
- .7 Constitutional monarchy.
- .8 Republic. Modern democracy, delegated powers.

322 Church and state. See also 172.3, State ethics; 261.7, The church.

323 Internal or domestic relations.

Free speech, Liberty of the press; see also 070, Newspapers; 179.1, Morals of the press.

324 Suffrage.

- .1 Qualifications. Age. Property. Education. Color. Race, etc. See also 325.1, Naturalization.
- .2 Forms of suffrage. Universal. Limited. Minority representation. Class system. Cumulative, etc.
- .3 Woman suffrage. See also 396.3, Woman; 329.83, Woman suffrage party.
- .4–9 In special countries. Divided like 940–999.

325 Colonies and immigration.

- .1 Immigrants and naturalization.
- .2 Emigrants. Divided by countries like 930–999.
- .3 Colonization. Divided by country like 940–999.
- .4–9 In special countries. Divided like 940–999, by country in which planted.

326 Slavery. See also 973.7, Civil war; 371.94, Education of freedmen.

- .1 Slave trade.
- .2 Coolies and contract slaves.
- 3 Serfs and serfdom.
- .4 Anti-slavery documents.
- .5 " periodicals.
- .6 " societies.
- .7 Pro-slavery.
- .8 Emancipation and freedom.
- .9 History of slavery. Divided geographically like 930–999.
- .92 Biography of slaves.

327 Foreign relations. Divided geographically like 930–999.

328 Legislative bodies and annals.

- .1 Parliamentary law.
- .2
- .3
- .4–9 Of special countries.

Divided by countries like 940–999, and under each, works may be divided: .1, Journals; .2, Debates; .3, Abstracts; .4, Documents; .5, Rules; .8, Legislative manuals; .9, History of bodies.

329 Political parties. Party conventions.

329.01, U. S. presidential campaign documents of all parties, arranged by campaigns.

- .1 Federal.
- .2 Anti-Federal.
- .3 Democratic.
- .4 Whig.
- .5 American. Know-nothing.
- .6 Republican.
- .7
- .8 Minor parties.

.81, Prohibition, see also 178.5, Ethics; .82, Greenback, see also 332.5, Paper money; .83, Woman suffrage, see also 324.3, Suffrage; .84, People's; .85, Labor, see also 331.8, Laboring classes.

- .9 Parties in other countries. Divided geographically like 940–999.

330 Political economy.

.1, Theories; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and teaching; .8, Polygraphy; .9, History.

331 Capital. Labor and wages.

- .1 Relations of capital to labor.
- .2 Wages. Comparative wages. Profit sharing. Compulsory insurance.
- .3 Labor of children. See also 179.2, Cruelty to children.
- .4 Labor of women. See also 396.5, Woman.
- .5 Convict labor. Prison contracts. See also 365, Prisons.
- .6 Pauper labor. Cheap foreign labor. Chinese. See also 339, Pauperism; 362.5, Asylums.
- .7 Skilled and unskilled labor.
- .8 Laboring classes. See also 329.85, Labor party.
- .81 Hours of labor.
- .82 Places of labor. Dangers. See also 613.6, Hygiene; 622.8, Mining; 614.8, Protection of life.
- .83 Food. Clothes. Shelter. See also 640, Domestic economy.
- .84 Morals and habits. Thrift. Temperance. Amusements. Temptations. See also 170, Ethics; 790, Amusements; 263.6, Sunday.
- .85 Helps. Lectures. Libraries. Reading-rooms, etc. See also 374.5. Popular lectures; 020, Libraries; 263.7, Sunday.
- .86 Training. Apprenticeship.
- .87 Organization of labor.
- .88 Trade unions and other labor societies. See also 338.6, Guilds.
- .89 Strikes.

332 Banks. Money. Credit. Interest.

.1 **Banks and Banking.**
.11, National; .12, State; .13, Private; .14, Trust companies; .15, Foreign. See also 334.2, Co-operative banks.
.2 **Savings Banks.**
.3 **Loan Institutes.**
.31 Credit Institutes.
.32 Building Associations. See 334.r, Co-operation.
.33 Monts de Piété. Governmental.
.34 Pawn Shops. Private.
.4 **Coins and Coinage. Mints.**
.41 Coinage Metals. Production and Value. Gold. Silver. Nickel. Copper.
.42 Single and Double Standard.
.43 International Standards.
.44 Monetary Congresses.
.45 Comparative Value of Moneys.
.46 Mints.
.47 Coinage Laws.
.48
.49 History of Mints and Coinage. Divided geographically like 940–999.
.5 **Paper Money. Public and Private Notes.** See 320.82.
.6 **Stocks and Stock Exchanges. Bonds.**
.7 **Credit. Credit System.**
.8 **Interest and Usury.** See also 336.31, Public securities.
.9 **Counterfeiting. Forging.** See 343, Criminal Law.

333 Land. Ownership, Rights, and Rent.

See 338, Production; and 630, Agriculture.

.1 **State Ownership.**
.2 **Community Ownership.**
.3 **Private Ownership.**
.4 **Absentee Owners. Alien Owners.**
.5 **Rent of Land for Cultivation.**
.6 „ „ **Building.**
.7 **Forests.**
.8 **Mines.**
.9 **Fisheries.**

334 Co-operation.

.1 **Building Societies. Loans. Organization.** See also 332.32.
.2 **Co-operative Banks.** See also 332, Banks.
.3 „ **Insurance Societies.** See also 368. Insurance
.4 „ **Housekeeping.** See also 640, Domestic economy.
.5 „ **Consumptive Associations. Stores.**
.6 „ **Productive Associations. Factories.**
.7 **Friendly Societies.**
.8 **Burial Societies.**

335 Socialism and Communism.

.01, Theory of property.
.1 **English Socialism.**
.2 **Saint Simonism.**
.3 **Fourierism.**
.4 **Communism.**
.5 **German Socialism. Social Democracy.**
.6 **State Socialism. Socialism of the Chair.**
.7 **Christian Socialism.**
.8
.9 **Socialistic Communities.**
Divided by countries like 930–999.

336 Finance.

.1 **State Domain and Properties.**
.11 Management and Income from Rents.
.12 Sale.
.13 Land Claims.
.14 Land Grants to Railroads, Colleges, etc. See also 379.12, Education.
.19 State Monopolies. e. g. French State Monopoly of Tobacco Trade. See also 338 8, Monopolies.
.2 **Taxation.**
.21 Direct.
.22 Real Estate.
.23 Personal.
.24 Income.
.25 Poll.
.26 Customs. Specific or Ad Valorem. See 337, Protection.
.27 Excise. Licenses. Liquor Dog. Legacies. Stamp Duties. See also 178.4.
.28 Local Taxes. See also 379.13, School funds.
.29 Assessment and Collection of Taxes.
.3 **Loans. Public Securities.**
.31 Interest-bearing Securities. See also 332.8, Interest.
.32 Floating Debt.
.33 Sinking Fund.
.34 Public Credit.
.35 Annuities.
.36 Repudiation.
.4–9 **Finance of Special Countries.** Divided geographically like 940–999.

337 Protection and Free Trade.

See also 336.26, Customs.

.1 **Absolute Free Trade. No Tariff.**
.2 **Free Trade, i. e. Tariff for Revenue only.**
.3 **Protection.**
.4 **Subsidies.**
.5 **Duties on Special Articles. Steel, Wool, etc.**
.6 „ „ **Raw Materials.**
.7 „ „ **Books and Works of Art.**
.8 **Duty Free Importation for Colleges, etc.**
See also 021.861, Libraries.
.9 **Reciprocity.**

338 Production. Manufacture. Prices.

.1 Agricultural products.
.2 Mining products. See also 332.41, Coinage metals.
.3 Water ,, Fish, ice, etc.
.4 Manufactured products. Machinery in industry.
.5 Prices.
.6 Guilds. See also 331.88, Trades unions.
.7 Corporate industries.
.8 Monopolies. See also 336.19, State monopolies.
.9 Industrial legislation. Divided geographically like 940–999.

339 Consumption of wealth. Pauperism.

See also 379.22, Illiteracy; 362.5, Pauper asylums; 331.6 Pauper labor.

340 Law.

General works.

Most periodicals belong in Private law, 347.05.

.1 Philosophy. Theories. Law of nature.
.2
.3 Antiquities. Torture. Trial by ordeal. Duel, etc.
.4 Trial by jury.
.5 Comparative legislation.
.6 Medical jurisprudence. See also 614.23, Expert testimony.
.7 Education. Law school. Office training.
.8 Polygraphy. Collections.
.9 Legal anecdotes and miscellany.

Public law.

341 International law.

.01, Philosophy; .02, Compends, etc., like 300.

.1 International congresses.

Of diplomatic agents for settling international relations. Congresses on special topics go with their subjects; e. g. 332.44, on Coinage.

.2 Treaties. Texts and history.

Class with most important country, dividing like 940–999.

.3 Law of war. Captives. Neutrals.
.4 International criminal law.
.5 International private law.
.6 Arbitration.
.7 Diplomacy.
.8 Consular systems.

342 Constitutional law and history.

Divided by countries like 930–999. Under each, works may be divided: 1, Texts of constitution; 2, Conventions; 3, Systems; 4, Essays; 8, Polygraphy; 9, History.

For Administrative law, see 350.

343 Criminal law.

.1 Criminal trials.
.2 Punishments.

Corporal. Death penalty. Hard labor. Confinement.

.3–9 Of special countries. Divided by countries like 930–999.

Under each country, works may be divided: 1, Penal codes; 2. Reports; 3. Criminal procedure; 4, Text books and manuals.

344 Martial law.

Private Law.

345 U. S. Statutes and Cases.

Divide each of the sections .1–.5, using 1, U. S.; 2, Individual states arranged alphabetically; e. g. Statutes at large of U. S., 345.11; Acts and resolves of Mass., 345.12.

.1 Session Laws.
.2 Codes. Revised Statutes.
.3 Law Digests (of Statutes).
.4 Reports.

Use .4, U. S. Supreme Court; .41, U. S. Circuit and District Courts; .415, Periodical collections of various states; e. g. Eastern Reporter, etc.; .42, Reports of individual states.

.5 Digests of Cases.

346 British Statutes and Cases.

Divided like 345. Includes all reports in English language except U. S. reports.

347 Treatises. American and English Private Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies, Bar associations; .08, Polygraphy; .09, History.

Put law of special topics with the subject; e. g. Insurance law, 368. The divisions .1–.8 may be disregarded and all English law text-books arranged in one alphabet by authors. An elaborate division, similar to Medicine, will be published after further revision.

.1 Persons. Legal Capacity.
.2 Realty.
.3 Chattels. Movables.
.4 Contracts.
.5 Torts.
.6 Family Law and Inheritance.
.7 Commercial and Maritime.
.8 Equity.
.9 Civil Trials. Procedure.
.91 Civil Trials.
.92 Pleading.
.93 Forms.
.94 Evidence. Testimony in general not limited to civil trials.
.95 Remedies.
.96 Justices of the Peace. Notaries. Sheriff.
.97 Organization of Courts.
.98 Jurisdictions.
.99 History of Special Courts.

348 Canon Law.

349 Foreign Law.

Divided like 930–999, and under each modern state divided like 345 with decimals .71 to .79 used for Treatises like 347. e. g. 349.4475 is French Law of Torts. 349.442 is French Code. Roman Law is divided:

.37 Roman Law.

.01, Philosophy; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Education; .08, Polygraphy; .09, History.

.371 Sources. Ante-Justinian.
.372 ,, Justinian.
.373 History and Criticism of Sources.
.374 Institutes. Ancient Roman Law.
.375 Pandects. Modern ,, ,,
.377 Treatises on Special Topics.
Divided like 347.

350 Administration.

Including Military science. .1, Theory; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education; .8, Polygraphy; .9, History. A large number of the questions properly placed under Administration are classed with related topics elsewhere. Some of these are repeated here, both to show the scope of the subject "Administration" and to provide for cross references by those specially interested. See also 342, Constitutional law and history.

351 Administration of Central Government.

.1 Organization of Civil Service.

Officers. Method of election or appointment. Official functions and powers. Mutual relations.

.2 Civil Lists.

.3 Examination.

.4 Tenure of Office. Discipline. See 351.92, Power of removal.

.5 Pensions.

.6 Reform. Spoils System vs. Office-holding Class.

.7 Subjects of Administrative Action.

See also 353, United States; 354, Foreign states.

.71 Financial Administration.

See 336, Finance, Public property, Taxation.

.72 Budget. Public Accounts.

.73 Internal Affairs.

See also 323, Domestic relations.

.74 Police Measures.

.75 Public Safety and Order.

See also 352.2, Police; 365, Prisons, etc.

1, Press.

2, Reunion and Association.

3, Weapons.

.76 Vice and Good Manners.

1, Liquor Regulation. See 178, Temperance.

2, Public Gaming. See 174.6, Ethics.

3, Public Begging, etc. See 339, Pauperism.

4, Prostitution. See 176.5, Ethics.

.77 Sanitary Police.

See 352.4, Boards of health; 614, Public health, etc.

.78 Accidents. See 614.8, Public health.

1, Buildings. See 614.85.

2, Fires. See 614.84.

.8 Promotion of Public Welfare.

.81 Means of Communication.

See 380, Commerce, Communication.

1, Highways. See 386; 352.7, Local government.

2, Railways. See 385.

3, Waterways. See 386; 387.

4, Ferries.

5, Bridges. See 352.7, Local government.

6, Post Office. See 383.

7, Telegraphs. See 384.

.82 Trade and Industry.

1, Weights and Measures. See 389, Commerce.

2, Coinage and Money. See 332, Banks, Money.

3, Landed Industry.

Agriculture. See 630, Useful arts; 338.1, Production.

Forests. See 634.9, Agriculture; 333.7, Land.

Mines. See 622, Mining; 338.2, Production; 333.3, Land.

4, Commercial and Manufacturing Industry.

See 380, Commerce; 338, Production.

5, Institutions of Credit. See 332, Banks, Credit.

Savings Banks. See 332.2.

Mutual Benefit Societies. See 334, Coöperation.

Insurance. See 368; 334.3, Coöperative insurance.

Monts de piété. See 332.33.

.83 Labor. See 331, Capital, Labor, Wages.

.84 Public Charity.

See 339, Pauperism; 360, Associations and Institutions.

.85 Education and Worship.

1, Public Education. See 379, Education.

2, Public Libraries. See 027.4, Library economy.

3, Art Museums. See 708, Art.

7, Worship. See 322, Church and State.

Military and Naval. See 355-359, Army and Navy.

Justice. See 340, Law.

Foreign Affairs. See 341, International law; 327, Politics, science.

.9 Control over the Administration.

.91 Administrative Control.

By superior officers.

.92 Disciplinary Power.

Power of removal. See also 351.4, Tenure of office.

.93 Supervision.

Power to annul or amend specific acts.

.94 Judicial Control.

1, Ordinary Courts. See 347.5, Law of torts.

5, Criminal Courts. See 343, Criminal law.

.95 Administrative Courts.

.96 Parliamentary Control.

.97 Petitions and Addresses.

.98 Investigations.

.99 Impeachment.

352 Local Government. Town. City. County.

See also 379, Public schools; 020, Libraries.

General Questions of Municipal Administration.

.001 Growth and importance of cities.
.002 Cities and state control.
.003 City as a juristic person,—a corporation.
See also 347.1, Law of corporations.
.004 City organization, municipal elections.
.005 Municipal civil service.

Local Administration of Special Countries and Cities.

.03–.09, divided by countries like 930–999.

.042 Local Government in England.

Arrange matter relating to special cities alphabetically by name of city and subdivide the remaining works as follows:

1, County.
2, Municipal borough.
3, Parisb.
4, Union. See 339, Pauperism.
5, Sanitary districts. See 614, Public health.
6, School districts. See 379, Education.
7, Highway areas. See 352.7.

.043 Local Government in Germany.

Special cities like 352.042.

1, Province. Landtag, Provincial Committee, Director.
2,
3, Circle, Circle Diet, Circle Committee, Landrath.
4, Commune.
5, Towns.
6, Township.

.44 Local Government in France.

Special cities like 352.042.

1, Department.
2, General council.
3, Departmental commission.
4, Prefect.
5, Arrondissement.
6. Commune.
7, Mayor.
8. Municipal council.

.1 **Finances. City Property and Local Taxation.**
See also 336, Finance.

.2 **Police.**

.3 **Fire Department.** See also 621.68, Fire engines; 614.84, Fires.

.4 **Public Health. Board of Health.** See also 614, Medicine.

.5 **Public Buildings and Works.**

.6 **Water and Sewerage Works.** See also 628, Sanitary engineering

.7 **Streets. Highways. Bridges. Parks.**

.8 **Licenses. Hack, Huckster, Entertainment, etc.**

.9 **Other Topics.**

353 United States and state government

See also 342.73 Constitutional law and history
.01 Administrativ centralization
.02 Separation of powers
.03 President
.04 Departments
.05 Cabinet

.1 **State department**

.2 **Tresury department**
See also 336.73 Finance of U. S.

.3 **Interior department**

.4 **Postoffis department**
See also 383

.5 **Judiciary department**

.6 **War department**
See also 355 Army Military science

.7 **Navy department**
See also 359 Navy Naval science

.8 **Other departments**

.9 **State government** Divided like 974-979

Apply same decimals for state and foren governments. For departments not here specified use .8 and .9 and any of above numbers left blank; e. g. for a state having no navy, .7 is free for some local use. Judiciary dept. of D. C. 353.97535

353.9 includes history of regiments, unless covering a particular period of national history; e. g. the "history of the N. Y. 7th regiment in the civil war" is attracted to 973.74, but a general history of the same regiment is 353.97476

354 Organization of central government Foren states

See also 342 Constitutional law and history
Divided geografically by countries like 930–999. Under each country the U. S. divisions, 1 State, 2 Tresury, etc. may be used; e. g. State department of Great Britain, 354.421. Add also the following divisions:

.42 Administration of England Central government
01 Administrativ centralization
02 Separation of powers
03 Monarch
04 Privy council
05 Cabinet

.43 Administration of Germany Central government
01 Administrativ centralization
02 Separation of powers
03 Empire
04 Bundesrat
05 Emperor
06 Ministry
07 States Monarchs
08 Landtag Ministers Council of state
09 Free cities

.44 Administration of France Central government
01 Administrativ centralization
02 Separation of powers
03 President
04 Ministers
05 Council of state

355 Military science Army

Military in broad sense of land and sea forces; but limited to military science, tactics, etc. For War department of U. S. see 353.6; for history of regiments, see 353.9 and 4 under special wars in 973. See also Military engineering

.01 Theory .02 Compends .03 Dictionaries .04 Essays .05 Periodicals .06 Societies .07 Education .08 Polygrafy .09 History

.1 Military life

Including honor, honors and insignia, and standards

.11 Servis periods and retirement

.114 Termination of servis Resulting status

.12 Military life in peace and war

.13 Military honor Disciplin

Professional morality; rewards

.14 Uniforms

System; distinguishing rank; style, color and esthetic considerations
See also 355.81 Clothing of troops

.15 Colors and standards

.16 Military celebrations

Commemorations, anniversaries, jubilees

.2 Recruitment

Voluntary and compulsory enlistment; recruits from military schools. Obligations of citizens with respect to national defense
For relations of government to maintenance of public order see 351.74 Government police mesures

.3 Organization of military forces

.31 Army units and organization

For special arms see 356 Infantry, 357 Cavalry, 358 Artillery. For classification according to military obligation and field of servis see 355.35

.33 Offisers Military hierarchy

.331 Command in general

General principles and rules of command, whether of large or small unit

.34 Special servis

Outside the regular arm or grade

.35 Armies General staff

Armies clast according to military obligation and field of servis; e.g. European armies of first line, 2d line, colonial armies
For military units see 355.31

.4 Tactics and strategy

.41 Logistics and field servis

.42 General tactics

See each arm for its peculiar tactics

.43 Strategy

.44 Siege warfare

For siege engineering see 623.2

.45 National defense

.47 Military geografy

Divided like 930–999
Geografic works from military point of view and works on strategic conditions of theaters of operations

.48 Wars, campains, battles, military exploits

Better clast with wars to which they belong in 930–999

355.5 Servis

Garrison and field servis, mobilization; instruction of troops and subaltern grades; maneuvers

.52 Grand maneuvers Instruction camps

.6 Military administration

Class here only what concerns the workings of administrativ servises. For personnel and organization of these servises see 356.3

.7 Military establishments

Organization and servis
See also 359 Naval establishments
623.63 Military establishments (military engineering)
725.12 Architecture of military bildings

.8 Military equipment and supplies

.81 Clothing Camp outfit

.82 Small arms and ammunition

Administrativ questions: working and reserv supply; storage, issue, etc.
For mechanism and relativ efficiency of different kinds see 623.4

.83 Wagons Harness Transportation outfit

.84 Pioneering tools

.85 Other tools Instruments

356 Infantry

.1 Organization

Light infantry, mounted infantry, cyclist infantry

.12 Special colonial infantry

.13 Organizations eventually subject to mobilization

.14 Volunteer corps

.15 Irregular troops

'Corps francs' existing only during war

.16 Special infantry troops

Sharpshooters, etc.

.2 Staff and special servises

.3 Administrativ staff and servises

Personnel and organization

357 Cavalry Mounted servises

.1 Cavalry proper

.2 Remount and training servises

.3 Army train

358 Artillery, engineers and other technical servises

For ordnance, gunnery, etc. see 623 Military engineering

.1 Artillery

.2 Engineers

.3 Other technical servises

359 Naval science

Divided by .01–.09 like 355. See 623.8 Naval architecture

360 Associations and institutions

This covers what is best known as "Charities and corrections," and general works on this topic go in 360. Under each section .9 is used as in 362.9, for grouping by location; e. g. Clubs of London are 367.9421

361 Charitable

See also 377.7 Charity schools For humane societies see 179.2

362 Hospitals, asylums, and allied societies

For inebriate asylums, see 178.6 Temperance reformatories

.1 Sick and wounded Incurables Eye and ear infirmaries Lying-in hospitals Dispensaries

.2 Insane

See also 132.1 Insanity

.3 Idiotic

See also 132.2 Idiocy; 136.7622 Child study; 371.922 Education

.4 Blind Def Dum

See also 371.91 Education

.5 Paupers

See also 339 Pauperism; 331.6 Pauper labor

.6 Aged

.7 Children Orphans Foundlings

See also ethics, 179.2 Cruelty

.8 Other

.9 Special countries

Divided like 930–999; e. g. 362.942 Hospitals of England

363 Political

Tammany, Primrose leag, Ku Klux, etc.

364 Reformatory

Schools; discharged convicts; criminal classes

365 Prisons Disciplin

See also 331.5 Convict labor

366 Secret societies

.1 Masons .2 Knights of Pythias .3 Odd Fellows .4 Rosicrucians
See also 371.85 College secret societies

367 Social clubs

368 Insurance

See also 334.3 Cooperativ insurance

.1 Fire

.2 Marine

.3 Life

.31 Annuities; see also 336.35 Public annuities; 519.5 Probabilities

.4 Accident

.5 Animal and crop

368.6 Plate glass

.7 Boiler

.8 Credit and bonds Land titles

.91 Government control Commissioners

.93–99 divided geografically like 930–999; e. g. Insurance in New York (including state reports, etc.) is 368.9747

369 Other associations and institutions

.1 Hereditary and patriotic societies (American)

.11 General associations

.111 Regular army and navy union
.112 Society of veterans of the regular army and navy
.113 Military and naval order of the United States
.114 Medal of honor legion
.115 Military order of foren wars of the United States
.116 Order of the old guard
Incorporated 31 Jan. 1896; organized 15 Oct. 1896
.117 Naval order of the United States
.118 Society of American wars
.119

.12 Colonial societies

.121 Society of colonial wars
.122 Society of colonial dames of America
A New York society with chapters in other states; known also merely as Colonial dames of America
.123 National society of colonial dames of America
A federation of separately incorporated societies in about 40 different states
.124 Society of the Mayflower descendants
.125 Order of the founders and patriots of America
.126 Colonial order of the acorn
.127 " society of Pennsylvania
.128 " daughters of the 17th century
.129

.13 Revolutionary societies

.131 Society of the Cincinnati
.132 Society of the daughters of the Cincinnati
.133 Sons of the American revolution
.134 Sons of the revolution
.135 Daughters of the American revolution
.136 Daughters of the revolution
.137 Children of the American revolution
.138
.139

369.14
.141 Society of the war of 1812
.142 United States daughters of 1776–1812
.143 Military society of the war of 1812
.144 Society of the second war with Great Britain in the state of New York
.145 Aztec club of 1847
.146 National association of veterans of the Mexican war
.147
.148
.149
.15 Civil war societies, Union
.151 G. A. R. (Grand army of the republic)
.152 Military order of the Loyal legion
.153 Society of loyal volunteers
.154 Union veterans union
.155 Union prisoners of war association
.156 Society of the army and navy of the Gulf
.157 National association of naval veterans
.158
.159
.16
.161 Woman's relief corps
.162 Woman's veteran relief union
.163
.164
.165 Society of the sons of veterans, U. S. army
.166
.167
.168
.169
.17 Civil war associations, Confederate
.171 Confederate survivors association
.172 Confederate veterans association
.173 United sons of confederate veterans
.174 " confederate veterans
.175 Daughters of the confederacy
.18
.181 Spanish war veterans
.182 Society of the army of Santiago de Cuba
.183 Naval and military order of the Spanish American war

370 Education

Disciplin in broad sense

.1 Theory of education Meaning Aim

Including philosofy of education, science of education and general methodology. Not limited to any curriculum, school or class of schools. For specific methods, pedagogics, see 371

.109 History of educational theory

.15 Psychology applied to education

Imitation, suggestion, play, etc. Divided like 150 Psychology; e. g. function of memory in education 370.154

.2

.3 Dictionaries Cyclopedias

.4 Essays Addresses

.5 Periodicals

General. For periodicals limited to a special topic see that topic; e.g. kindergarten magazines 372.205. See also 371.805, 378.05

.59 Educational almanacs and kalendars for teachers

.6 Organizations Conventions

.61

.62 Associations Clubs

Permanent societies, their meetings and reports. Divided like 940–999

.63 Congresses Conventions

Occasional congresses and conferences: international or interstate

.7 Study of education Institutions and organizations for training teachers

Means and methods, including normal schools, institutes, etc. For need of training, kind and amount, see 371.12

.71 Teachers meetings

Class meetings of teachers of a single institution (faculty meetings) with the institution; see table for school and college publications under 378.4–.9

.711 Plan and organization

Frequency, time, place, control, cost, etc.

.712 Programs, courses of study

.714–9 In special places

Divided geografically like 940–999

.72 Teachers institutes

Divide like 370.71 above

.73 Normal schools

Institutions primarily for training teachers; e.g. state normal schools, Teachers college of Columbia university; often with attacht 'model' or practis schools, in which normal students teach under supervision of their instructors. For training classes attacht to regular schools see 370.75

.731 Plan and organization Aims and functions Scope

Length and time of terms. Support: public, private

.732 Courses, programs Credentials

.733 Adjuncts: practis or model schools

.734–9 Special countries and schools

Divided geografically like 940–999

.74 Education museums

Including exhibits at international expositions, state and county fairs, etc.

.75 Training classes

Class here teachers classes attacht to regular schools. For normal schools see 370.73

370.8 **Polygrafy**

.81 Collected writings of a single author

If not limited to a definit topic; e.g. Horace Mann, Henry Barnard, etc.

.82 Collected writings of several authors

.9 **History, description**

General works covering both ancient and modern history, and including history of institutions, practis and description of conditions. See also 136.791 The child among uncivilized and semicivilized peoples

.92 Educational biografy

Preferably clast in 923.7

.93–9 History of education in special countries

Subdivided like 930–999

.9401 **Medieval Europe**

.9405 **Modern Europe**

371 Teachers Methods Disciplin

Practical methods. See 370.1 for theories of education. The following divisions concern instruction of all grades

.1 **Teachers Teaching personnel Professors, masters, instructors**

See also 370.7 Training of teachers

.101 **Duties and responsibilities Mission**

.102 **Personal influence**

.103 **Relations to parents**

Mutual duties of parents and teachers

.104 **Relations to community Public status**

.105 **Social status**

.11 Qualifications Personality

See also 371.18

.12 Need of training; kind and amount

Discussion of special preparation of teachers and professors for their vocation. For teachers training schools and classes, see 370.7

.13 Examination Certificates Certified teachers Licenses

.14 Appointment Organization of teaching force

.142 **Appointment Contract Discharge Tenure**

.143 **Appointing body**

Board, committee, principal

.145 **Agencies**

Burcaus and associations for supplying teachers

.15 Professional status

Permanent profession vs steppingstone theory

371.16 Salary and promotion Compensation Amount of servis

For pensions and insurance see 371.17

.161 **Salary**

.162 **Fees**

.163 **Allowance for expenses**

.164 **Residence Living expenses**

.165 **Promotion Advance in rank**

For salary promotion see 371.161

.166 **Hours Daily or weekly servis**

.167 **Vacation Yearly servis**

.168 **Sabbatic year**

.17 Pensions and insurance for teachers

Carnegie pension fund

.18 Women as teachers

Feminization of teaching force

.19 Other topics

371.2 **School organization School records**

Diary. 'Logbook.' For government of students, disciplin, see 371.5 For school supervision see 379.15

.21 Admission Enrolment Matriculation

For college entrance requirements see 371.214. Standards of individual schools are clast with the school

.211

.212 **Grammar or intermediate school admission standards**

Including standards of German bürgerschulen

.213 **High school standards**

Including standards of German gymnasia, French collèges and lycées

.214 **College standards**

Undergraduate and nonprofessional graduate courses in (American) colleges and universities

.215 **Professional and technical school standards**

.22 Tuition fees Free tuition Scholarships

See also 371.162 Professors fees; 379.13 Tuition fees of nonresident pupils in public schools; 378.34 Scholarships

.23 Terms Vacations Holidays Breaking up

See also Hygiene of vacations and holidays 613.76, 613.77; Closing for diseases, 371.712

.234 **Terms in 2 or more places**

For floating schools see 371.392

.24 Hours Recess

For exercise see 371.73 Care of body

.25 Classes Grades

For grading of schools, see 379.17. See also 371.394 Individual instruction

.253 **Length of school courses; e. g. 6 year course**

See also 378.241 Length of college course

.26 Marking system

371.27 Examinations: oral, written Cramming
See also 428.9 Language
For competitiv examinations see 371.53
.28 Promotions Degrading
.29 Other topics
.291 **Graduation Diplomas**
May be subdivided like 371.21 See also 378.2 College degrees
.3 **Methods of instruction**
See also special subjects; e.g. Science study, 507
.31 Rote or concert teaching
.32 Text books Recitations
Use of textbooks. Textbooks themselvs are clast with the subjects treated
.33 Lectures Oral instruction
.34 Developing or inductiv method
.35 Art of questioning Catechetic method
.36 Topical method
.363 **Correlation**
.365 **Special days**
Historical days: Discovery day, Flag day, Memorial day, Constitution day, Independence day. Birthdays: authors and other noted persons; Washington's birthday. Nature: arbor day, bird day. Other: Thanksgiving, Christmas, Easter, etc
.37 Seminary method
.38 Laboratory work
.39 Other
.392 **Floating schools or colleges**
Combining travel and shipboard instruction
.393 **Trips, excursions, visits**
.394 **Individual instruction Batavia system**
By regular teacher or tutor, at home or at school See also 373.1 Private instruction
.395 **Small classes**
See also 371.47 Quincy system
.4 **Systems of education**
For Fröbel's system see 372.2 Kindergarten
.41 Bell and Lancaster, or monitorial Mutual system
.42 Fellenberg or manual training; vocational schools, industrial education
For equipment and cost of manual training schools or departments see 371.623 Machine shops, 371.676 Apparatus, etc. For subjects of study see 375.01–.9 For individual schools see 607 or 378.99
.421 **Educational value**
.422 In elementary schools
.423 In secondary schools
.424 In special schools
.429 **History and development**

371.43 Military organization Military instruction
.44 Pestalozzian
Class here all Pestalozzi's educational writings
.45 Jacotot
.46
.47 Quincy system
.5 **Government Disciplin Authority**
.51 Rules
.52 Attendance Truancy Tardiness Absences
See also 379.23 Compulsory education
.53 Rewards Prizes Favors Approbation
.535 **Interschool literary contests**
Competitiv examinations. For interschool and intercollegiate debates see 374.245 For interschool athletics see 371.75
.54 Punishment Disciplinary penalties
Limits of school jurisdiction. Disciplin of consequences
.55 **Corporal punishment**
.56 **Other punishments**
Confinement; tasks; expulsion; suspension; discharge
.57 Personnel responsible for disciplin Monitors
.58 Moral government Alcott system
.59 Student self government College systems
.595 **School city Ray system**
.6 **School premises and equipment**
.61 Grounds Site
School playgrounds
.62 Bildings
Requirements peculiar to schools. See also 727 Architecture of educational institutions. The following subdivisions apply to both special rooms and separate bildings
.621 **Study, lecture and assembly rooms**
.622 **Library and museums**
Art, science, etc. See also 022 Library bildings; 371.64 Function of school libraries; 021.3 Relation of libraries and schools; 027 .7–.8 Reports of college and school libraries
.623 **Laboratories Observatory Machine shop**
See also 542.1 Chemic laboratories; 522.1 Observatories 371.66 Scientific apparatus and supplies
.624 **Gymnasium**
See also 725.85
.625 **Other special rooms or bildings**
Dormitories, clubs, infirmaries, Y.M.C.A. and Y.W.C.A.
.626 **Sanitation Lavatories**
.627 **Lighting**
.628 **Heating and ventilation**
.629 **Accessories**
Elevators, lifts, telefones, etc

371.63 Furnishing and decoration

.631 **Furniture**

Blackboards, desks, chairs, benches. For globes and maps see 371.66

.632 **Musical instruments**

.633 **Floors: bare, coverd**

See also 721.6 Architectural construction;
022.96 Library bildings
645 House decoration

.634 **Walls: tints, covering**

.635 **Decoration**

See also 729 Architectural decoration

.636 **Pictures, frescoes Glass**

.637 **Sculpture**

.638 **Plants**

.639 **Other decoration**

.64 Libraries

Character and functions. For relation to public library see 021.3; for relation to other school rooms and bildings see 371.622. See also 027.8 School libraries; 027.7 College libraries

.641 **Relations of library to faculty and students**

.642 **School traveling libraries**

.643 **School reading lists**

See also 028.5 Reading of young

.644

.645 **Elementary school libraries**

.646 **Secondary school libraries**

.647 **College and university libraries**

Departmental and seminar libraries

.648 **Professional and technical school libraries**

In 371.645–8 may be clast matter pertaining to desirability and scope of such libraries, tho it is better in 027.7–.8 with reports and other matter pertaining to their management

.65 Museums: character and functions

Divided if wisht like 010–999: e.g. 371.655 Science museums; 371.657 Art museums Limited to character and functions of museums attacht to teaching institutions; see also 708 Art museums and form division 074 under special subjects

.66 Scientific apparatus, laboratory equipment and supplies

Divided like 500; e.g. 371.662 Astronomic observatory

.67 Other apparatus, equipment and supplies

Divided if wisht like 010–999; e. g. 371.6791 Globes, maps, etc.

.7 **School hygiene**

.71 Helth of students Overstudy Fatigue

.711 **Sanitary conditions and inspection**

Board of helth. For sanitary engineer's side see 371.626

.712 **Medical inspection**

For personal conditions affecting helth and intellectual progress; e.g. cleniiness, contagious diseases, nervous disorders, defectiv eyes, ears or teeth. Closing schools on account of epidemic or contagious diseases

371.713 **Unhygienic postures**

See also 371.632 Furniture (ill designd desks and seats)

.716 **School meals**

Discussion. Administrativ problems: space, cost, whether wholly or partly free, etc. For management of lunch room, suitable food, etc. see 642.58

.72 Care of eyes Effect of study

.73 Care of body Gymnastics Calisthenics

For systems of gymnastics or physical training, and books of exercises see 613.71

.731 **Educational influence of physical training**

.732 **Gymnastics Calisthenics**

.7322 In elementary schools

.7323 In secondary schools

.7324 In colleges

.7325 In special schools

.7326 In girls' schools

.733 **Military drill**

For military organization of school see 371.43

.734 **Fencing**

.735 **Swimming Bathing**

.736 **Riding**

.737 **Walking School promenades**

.74 Recreations Games, etc. Athletics Diversions

See also 371.61 School playgrounds; 613.74 Hygiene of play; 796 Outdoor sports

.75 Championship games Boat races Interschool athletics

See also 175.7 Ethics; 613.73 Hygiene; 796 Outdoor sports

.79 Other special topics

.8 **Student life and customs**

Various aspects of student life and student activities outside regular courses of study

See also 784.6 College songs; 378.29 College costumes

.805 **Student periodicals**

Discussion here. Periodicals themselvs preferably with their schools

.81 Student honor

Cribbing Cheating Keys Ponies Copying

.82 Fagging and hazing Bullying German student duels

.83 Student organizations German corps

.836 **Ancient student societies**

.84 **Literary societies**

.85 **Secret societies**

Class all college chapters here, thus bringing the fraternity together, with reference from the college. See also 366 Secret societies

.86 Society premises Society houses Halls Temples, etc

371.87 Student houses Lodgings Dormitories
.88 Commons Student restaurants Eating clubs
.89 Customs Celebrations Triumphs, burnings, etc
Anniversaries Ceremonious receptions Student banquets
.895 **School plays**
Divided by language like 400; e.g 2 English, 3 German
.896 **Class days**
Of special institution, with institution
.9 **Education of special classes**
General questions; kind and methods of education for these classes. For institutions see 362, 364. For study of abnormal children see 136.76
.91 Physically defectiv
See also 362.4 Asylums for blind and def
.911 **Blind**
See also 655.38 Printing for the blind
.912 **Def**
Finger alfabet See also 378 for degreeconferring colleges
.913 **Blind-def**
.92 Mentally defectiv
Divided like 132 see also 362.3 Idiot asylums, 920.8 Lives of idiots, cranks, etc.
.93 Morally defectiv Delinquents
See also 364 Reformatories. Criminal classes
.94 Other abnormal classes
See also 136.764–9 in Childstudy
.945 **Exceptionals**
.947 **Dependents**
See also 362 Hospitals, asylums and allied societies
.95
.96 Special ranks
See also 375.002 Courses for different social classes
.961 **Princes**
.962 **Nobles**
.97 Special types
See also 372.17 Boys, the 'gang'
.974 **Freedmen Negroes**
See also 378.75–.76 for degreeconferring colleges
.975 **Indians**
.976 **Orientals**
.98 Special nationalities
Special schools for foreners; e. g. Germans, Hungarians, Russians, Japanese in United States.
.99 Coeducation of races

372 Elementary education

Primary schools. Dame schools. Infant schools (under 7 years)
See also Day nurseries 362.7; Minding schools 362.5 or 362.7; Crêches 362.7
.01 **Pedagogics and didactics of primary schools**
.1
May be used like 136.7 by those who insist on having childstudy with education
.2 **Kindergarten**
See also 371.44 Pestalozzian, for theory and early history. Put Fröbel's work and development of his system here
.201 **Theory Principles**
.202
.203
.204 **Essays**
.205 **Periodicals**
.206 **Societies**
.207 **Training kindergartners**
.208
.209 **History**
Divided if wisht like 940–999
.21 Methods
.211 **Gifts and occupations**
.212 Gifts
.213 Occupations
.214 **Stories**
.215 **Songs and games**
.22 Influence of kindergarten
.23 Relation to other schools
.3 **Observing powers Object teaching Science**
.35 Nature study
Divided like 500–599; e.g. Birds 372.35982
.36 Gardening
.4 **Reading Alfabet Fonics and word methods Spelling**
See also 428.6 Elementary readers
.45 Simultaneous teaching of reading, writing and spelling
.5 **Elementary writing and manual work**
See also 741 Freehand drawing
.51 Writing
First efforts, imitating printed roman letters
.52 Drawing Design
See also 741 Drawing
.53 Clay modeling
.54 Sewing, etc
.55 Elementary basketry, weaving and braiding

372.6 Elementary grammar Language lessons

See also 400 Philology, subdivision 8 under each language

.61 Mother tung

.65 Second language

.7 Elementary arithmetic

Including mental arithmetic. See also 511. For Abacus see 511.2

.8 Other studies

Divided if wisht like 010–999; e.g. 372.82 Religion

.89 Elementary geografy

See also 910.7. Elementary text books may be put with their subjects, but a primer of geografy is more useful to a student of elementary schools and methods than to one interested in Geografy, Description, and Travel. Text books, except primary, go with their subjects

.9 Special countries and schools: history, reports, etc

Divided like 940–999; e.g. 372.942 English elementary schools. Put here elementary schools whether public, endowd or private

373 Secondary Academic Preparatory

Class here discussions of general theories, methods, etc. pertaining specifically to secondary education, regardless of source of support. Class here also all private or endowd secondary schools for boys or both sexes; but class all public (taxsupported) schools in 379.4–.9, all primary schools (regardless of support) in 372.9, all schools and colleges solely for women in 376, and all colleges for men or coeducation in 378. Class methods and questions peculiar to monastic, diocesan and parochial schools in 377, but class the schools themselvs in 372, 373, 378, etc. according to their grades

For specific topics see 371

.1 Private instruction: tutor, governess, coach

.11 Relativ advantages of instruction at home and in school

See also 371.394 Individual instruction

.2 Day schools Boarding schools

.4–9 Special countries and schools: history, reports, etc

Divide like 940–999, as, 373.42 Higher English schools, Eton, Harrow, etc

374 Home education Self education and culture

Cultural, personal aspect of education.

Subdivided by 0 with form numbers if wisht; e.g. 374.05 magazines pertaining to this work, 374.06 Conferences, conventions, institutes, general meetings.

The term Home education covers the broad field of adult self education thru private reading, study clubs and reading circles, summer, vacation, evening and correspondence schools, lecture courses and other forms of extension teaching and other agencies for extending more widely opportunities and facilities for education outside the usual teaching institutions.

For relations of this work to libraries, the natural centers for such activities see 021.2 See also 378.13 University extension

With or without personal guidance

.1 Solitary study Private reading Conversation

Advantages to be derived from reading. Study alone with or without aid of reading lists, syllabuses, etc

Reading lists themselvs, syllabuses and other aids to study belong with other bibliografies (016) or with compends under their subjects. They may however, if preferd, be kept together under 374.1, divided like the classification; e.g. syllabus on English history 374.1942; on library economy 374.102

See 028, for preparation of guides, policy, methods, etc.

.2 Associated study Clubs

.21 Study clubs

Class here 'travel clubs' which study about places without traveling to see them. See also 374.25

.22 Reading circles Book and periodical clubs

.23 Lyceums Literary clubs

.24 Debating societies Oratorical clubs

.245 Interschool and intercollegiate debates

For interschool literary contests see 371.535

.25 Traveling clubs Educational value of travel

Clubs which travel for study. See also 374.21

.3

With personal guidance

Either alone or in groups, clubs or classes

.4 Correspondence teaching Manuscript aids

Including methods of correspondence teaching

.43 Societies for encouraging home study

.44–.49 Correspondence schools

General schools divided like 940–999. Special schools are better clast with their subject, with only a reference here: e.g. correspondence schools of agriculture 630.7

.5 Lectures

Single lectures, or series of lectures on different subjects; courses on the same subject unsupported by any other of the 7 factors of a complete extension course: i.e.

1	Lectures	3	Class	5	Guided reading	7	Examination
2	Syllabus	4	Papers	6	Club		

374.6 Extension courses Lecture study

.62 Lecture study

3 or more lectures on the same subject, with 2 or more of the 7 factors

.64 Extension courses

5 or more lectures on the same subject with 4 or more of the 7 factors

.8 Continuation schools

Summer, winter, vacation, night (adult) etc. German auxiliary schools Divided like 940–999 For evening or night schools see also 379.19

.9 Central organizations, state departments, institutes

N.Y. state home education dept, Brooklyn institute, Cooper institute, Chautauqua, etc

375 Curriculum

.001 Order of studies
.002 Single course
.003 Parallel courses
.004 Optional courses Electiv system
.005 Balanced courses Group system

Special topics

.006 Overcrowding curriculum
.007 Courses for different classes of society
1 For bredwinning vs culture
2 Failure of course to develop efficiency
.008 Courses for schools of special kinds

Courses in schools of Roman catholic order of St Ann; outline of study for common schools; courses in French lycées, etc. See also special schools under their respectiv subjects

.009 Courses for institutions in special countries

Divided like 900. See also 379.4–.9

.01–.9 Subjects of study

Divided like the classification 010–999; e.g. 375.5 Place of science in the curriculum, 375.84 French literature in the curriculum, 375.88 Classics in the curriculum

Methods of teaching individual subjects, also textbooks, may be kept with educational literature by adding letters to 375 as follows: A general, B educational value of specific subjects, C place in curriculum, D methods of teaching specific subjects, E textbooks;

e.g. 375.32 B Educational value of political science
375.32 C Place of political science in the curriculum

376 Education of women

See also 396.4

.1 Physical capacity of women

.2 Mental capacity of women

See also 136.1 Mental characteristics as influenced by sex

.3 Home or domestic instruction

By tutor or governess. See also 374

.4 Fashionable education 'Finishing' schools

Discussion. For prospectuses, catalogs, etc, see 376.9

.5 Convent education

Discussion. For prospectuses, catalogs, etc, see 376.9

376.6 Higher education of women

Secondary and college

.63 Secondary: Preparatory schools for girls

All between primary and college. Discussion. For girls highschools see 379.4–.9; for private preparatory schools see 376.9

.54 Influence of college education on women

.56 Associations of college women

Association of collegiate alumnae. Alumnae of a single college with that college

.7 Coeducation Segregation Separation

Discussion of collegiate education of women in separate institutions or those for both sexes, whether in the same or separate classes. See 378 for coeducational institutions, 376.8 for separately organized colleges, either affiliated like Barnard and Radcliffe or independent like Vassar, Smith, etc
Class here by attraction general discussion of coeducation of sexes in college and secondary school

.8 Colleges for women

Degreeconferring colleges go here. Arrange material of each college by "Table for school and college publications" following 378.99. All other schools for women go in 376.9

.9 Special countries and schools: history, reports, etc

Subdivided like 940–999: e.g. 376.943 Education of women in Germany

377 Religious, ethical and secular education

Relations of religious to secular education. For inculcation as well as actual teaching of definit ethical or religious doctrins sec 375; e. g. instruction in duties of citizenship, patriotism 375.172, course in Christian evidences 375.239
Class catalogs, history, etc of a denominational school regardless of religious affiliation, but class here books dealing in general with schools of a certain denomination or order; e.g. educational system of the Jesuits 377.35

.1 Religious instruction Bible in public schools

Including sectarian instruction or influence in public schools. Public school teachers in religious garb. Conscience clause of English elementary school code

.2 Ethical education

See also 170.7 Study of ethics; 375.17 Place of ethics in curriculum

.3 Monastic or abbey schools

Ecoles congréganistes. Divide like 271. See also 271 Monastic orders; 376.5 Convent education of girls

.4 Diocesan schools Cathedral schools

Domschulen, stiftschulen

.5 Parochial schools

See also 257 Parochial schools

.6 Missionary schools

See also 266 Missions

.7 Charity schools

Mainly for elementary education. See also 361 Charitable institutions

.8 Church and education

Subdivided like 280; e.g. 377.82 Relation of Roman catholic church to education. Discussion of denominational schools or educational associations
e.g. 377.82 Association of Catholic colleges of United States
See also 261.5 Church and intellectual development

.9 Nonchristian religions and education

Subdivided like 290; e.g. 377.97 Relation of Mohammedanism to education

378 Colleges and universities

With power to confer degrees. For men only and for both sexes. For women's colleges see 376.8

.01 **Definition of college and university Aim**
Advantages and influence of college training; e.g. on business capacity

.014 College terminology, 'slang'
Including also student slang. See also 427, 437, etc.

.05 **Academic periodicals**
Periodicals devoted to college and university interests. Those issued by colleges, schools, etc, are scatterd either by subject or under college numbers

.06 **General college associations**
Association of New England colleges
See also 370.6

.068 Associated alumni University clubs
For alumni associations of any one college, see T under college number

.069 Duties of college men as a body

.1 Organization Government Location Scope, field
Classes, colleges, graduate departments, etc.

.11 Administrativ officers

.113 Disciplinary officers, judicial corps, university court
President, deans, etc.

.12 Teaching staff Faculty
Exchange of professors. For qualifications see 371.11

.121 Freedom of teaching

.13 University extension
Conducted by universities. See also 374

.14 College year Summer or vacation instruction All the year session

.15 Location and size Large vs small

.153 City vs country colleges

.16

.17

.2 Academic degrees and costume College colors
See also 614.31 Medical degrees

Degrees

.21 Degree conferring body and powers
College, university or state. See also 614.21 State regulation of medical education

.22 Graded degrees
Pass, honor, cum laude, magna cum laude, etc

.23 Degrees in course
Advanced degrees conferd at specified periods on graduates in good standing, without evidence of advanced attainments

378.24 Degrees for completion of courses
With or without examination

.241 Time and residence required Length of college course

.242 Subjects allowable for liberal degree
Whether technical courses should be credited toward liberal degrees

.243 Differentiation of degrees: B.A. B.S. B.L. etc

.244 Degrees on examination
With or without residence

.25 Honorary degrees

.26 Degrees by purchase or forgery

Insignia

.27 Seal Coat of arms Motto

.28 Colors: institution and class College flags

.29 Academic gowns and hoods

.3 Endowment of research Fellowships Scholarships Student aid

.31

.32 Endowment of research
Carnegie institution. Incentivs to research. Prizes. Opportunities for research. Nobel prizes. Competitions

.33 Fellowships

.34 Scholarships
Rhodes scholarships Traveling scholarships

.35

.36 Student aid societies Student loan funds

.37 College employment bureaus Faculty committees
Other organizations for securing work for students

.38 Student expenses Extravagance Economy

.4–.98 Special countries and colleges: History, reports, etc
For women's colleges, see 376.8
Subdivide like 940–999, e.g. 378.42 English universities; 378.741 Maine colleges
The various colleges of any section may be given each a number or be arranged alfabetically. Under each college arrange publications by the following table, placing these letters *after* the letter (or letter and figures used to designate the college; e.g. a history of Harvard college would be markt 378.744 H E, and a second history would be numberd 378.744 H E1. The practical convenience of this plan outweighs the objection that it introduces classification into the book numbers
If preferd, colleges and universities may be arranged alfabetically under continent number, insted of being clast first by country or state: e.g. European universities under 378.4 in alfabetic order regardless of country. United States colleges and universities all in one alfabet under 378.73

.99 Professional, technical and other special schools Professional education
Best kept with subject, but may be compactly groupt here. Divided like the classification: e.g. 378.992 Theologic schools, 378.9934 Law schools, 378.9961 Medical schools

TABLE FOR SCHOOL AND COLLEGE PUBLICATIONS

A Charter and statutes
B Trustees Regents Resolutions, reports, etc
C Administration President, chancellor Reports, etc
D Finances Tresurer's reports
E History Foundation, growth, etc
F Biografy Necrology
G General catalogs Triennials, etc
H Annual catalogs Attendance, registers, etc
I Handbooks Circulars of information
J Bulletins Official periodicals
K Commencements, inaugurals, etc Baccalaureate and other addresses
L Programs Tickets Memorabilia
M Faculty (as a body) Publications Regulations
N Lectures Class manuals Examination questions
O Student theses Orations, essays, etc
P Student catalogs Society annuals, etc
Q Student periodicals
R Student societies, including periodicals
S Student miscellany Songs Class day, etc
T Alumni Societies, committees, etc
U Classes Histories, records, etc
V Pictures Class albums
W Bildings and grounds Descriptions, maps, etc
Z Schools: divinity, law, medical, etc

379 Public schools Relation of state to education

.1 Public school system

.11 School funds

.12 National and state aid to education

See also 336.14 Finance

.121 Public aid to private and sectarian schools

.123 Land grants

.124 Subsidies

.13 Local support

Taxation Bonds Endowment Nonresident tuition See also 336.28 Taxation

379.14 School laws and regulations School age

Divided like 940–999

.15 School supervision and control: national, state and local Centralization

.151 National

.152 State: department, inspectors, etc

.153 Local: superintendent, school committee, board

Supplies, free textbooks, etc. For school meals see 371.716

.154 Individual: parents and others

.156 State textbooks

.16 Public colleges and universities: national, state and local

Only discussion here; for individual colleges see 378.4–.9

.17 Secondary schools

Discussion. For individual schools see 379.4–.9

.171 Highschools Academies

6 year highschools

.172 Grammar schools

.173 Rural schools

.175 Central plan Conveying pupils

.18 Primary schools Kindergartens

Questions of public maintenance. For individual schools see 372.9

.19 Evening schools

See also 374.8

.2 Illiteracy Instruction of illiterates

.21 Illiteracy and crime Education and crime Criminal illiterates

.22 Illiteracy and pauperism Indigent illiterates

See also 339 Pauperism; 362.5 Pauper asyiums

.23 Compulsory education

See also 371.52 Truancy

.24

.3 Public vs private and endowd schools

.4-.9 Special countries, sections, cities, etc

Subdivided like 940–999: e.g. 379.73 Reports of U.S. commissioner of education; 379.74 Education in Massachusetts; 379.7471 in New York city. Keep state departments separate from city and other local systems by numbering state reports, A1–A8, using A9 followd by author's initial (lower case) for history of schools of any state: e.g. Fitch's *New York public schools* 379.747 A9f

380 Commerce Communication

The technical side of these questions goes mostly in 650 Useful arts. Here belong discussions of social and political relations; e. g. government control of railroads, telegrafs, etc.

381 Domestic trade

382 Foren trade Consular reports

383 Postoffis
See also 353.4 U. S. administration

384 Telegraf Cable Telefone
See also 621.38 and 654

385 Railroad and express
See also 656 Railroading

386 Canal and highway transportation
See also useful arts, 656 Transportation

387 River and ocean transportation
See also useful arts, 656 Transportation

388 City transit
See also engineering 625

389 Weights and mesures Metrology
See also 658 Business manuals

390 Customs Costumes Popular life

These heds are for discussions by topic. Customs, etc. of any special country go in 913–919. Books on a special topic in a special country go here, as the grouping by topics is the more important; e. g. Marriage in Japan is 392.5, but Japanese customs, 915.2. For customs of primitiv man, see 571

391 Costume and care of person
See also 646 Clothing; 613.4 Hygiene

.1 Costumes of men
.2 " " women
.3 " " children
.4 Extremities: hats, gloves, sandals, shoes, stockings, etc.
.5 Hair dressing Barbers
See also 646.7 Toilet
.6 Care of person Bathing Toilet
.7 Ornaments and jewelry
.8

392 Birth, home, and sex customs
.1 Birth customs: christening, circumcision
.2 Sacrifice and exposure
See also ethics, 173.4 Infanticide
.3 Family and home relations
.4 Betrothal
.5 Marriage
.6 Sex relations Concubinage

393 Treatment of the ded
See also 614.6 Public helth
.1 Earth burial
See also 719 Cemeteries
.2 Cremation
.3 Embalming, mummies
.4 Exposure
.9 Special funeral customs: wake, suttee

394 Public and social customs
.1 Eating, banquets
.2 Shows and diversions
.3 Games Dances, etc.
.4 Ceremonies
.5 Processions
.6 Fairs
.7 Chivalry Tournaments
.8 Dueling Suicide
See also 179.7 Ethics; law, 340.3 Trial by ordeal

395 Etiquet

396 Woman's position and treatment

For costumes, see 391.2; biografy, 920.7
If a special library about women is wisht, 396 is the best place for it. Suffrage, education, and employment can then be put here, with references from 324.3, 376, 331.4, etc. but it would be unwise to bring everything about women here, e. g. to remove 618, Diseases of women, from the rest of medicin. Books on woman in general go in 396

.1 **Emancipation**

.2 **Legal status, property, rights, etc.**

.3 **Political status**

See 324.3, Suffrage; 329.83, Woman suffrage party

.4 **Education**

See also 376, Education of women

.5 **Employment**

See 331.4, Labor of women; 371.18, Teachers
Divided like the general classification; e. g. woman as scientist, 396.55; woman as painter, 396.575; woman as author, 396.58, etc.

.6 **Woman in home**

.7 **Delineation of woman in art**

.8 **Delineation of woman in literature**

.9 **Woman in history, politics, war** **Amazons**

397 Gypsies Nomads Outcast races

People without nationalities who do not coalesce with the ruling people among whom they live. This includes Gipsy language, which has no place in the linguistic groups of 400, as the Gipsy people have no place in the geografic divisions of history

398 Folklore Proverbs, etc.

See also 291–3 Mythology
This section is for material needed in studying Folklore. Merc stories for children, unless having a value to students of folklore, go in 823, or in J, if there is a Juvenil collection

.1 **Primitiv traditions**

.2 **Legends, tales, traditions**

.3 **Folklore, traditional beliefs and customs, popular superstitions**

.4 **Fairies, elvs, ogers, monsters, etc.**

Bogies, gnomes, dragons, vampires, werewolvs

.5 **Chapbooks**

.6 **Riddles**

.7 **Dream books**

.8 **Song books**

Including only popular collections, hardly ranking with Poetry or Music, but useful in the study of Folklore, etc.

.9 **Proverbs**

399 Customs of war

Wepons War dances Treatment of captivs Scalping Mutilation Burning Cannibalism See also 623.4 Firearms

Philology

400 Philology in general

In philology the general works put under 400–419 deal almost entirely with the Indo-European languages. They are put here because they cover most of the divisions of this class, and in practis are most convenient here. Under 439, 479 and 489 are placed books limited to the Teutonic, Romance, or Hellenic groups, and under 491 are placed only such general works as are specifically limited to the Indo-European group

401 Philosofy Origin of language

402 Compends Outlines

403 Dictionaries Cyclopedias

404 Essays, lectures, addresses

405 Periodicals

406 Societies, transactions, etc.

407 Education, teaching languages

408 Polygrafy Collections

.9 **Universal language** .91 **Volapük**

409 History of language

410 Comparativ

410–419 includes *comparativ* works in *general* and also those on the Indo-European group in general, but general *and comparativ* works on Teutonic group are 439; on Romance group 479; on Hellenic group 489. Everything about an individual language is put with that language

411 Orthografy Orthoepy Alfabets

412 Etymology, derivation

413 Dictionaries, lexicografy

414 Phonology Visible speech

415 Grammar, morphology, syntax

416 Prosody

417 Inscriptions Paleografy

See 421.7, 471.7, 481.7, etc. Rare early mss are put in c91

418 Texts

419 Hieroglyfics

See also 493.1

.1 **Sign language**

For def mute alfabets, see 371.912

420 English philology

.1 Philosofy .2 Compends .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .8 Collectiv works .9 History of the language

421 Orthografy

See also this hed treated in general grammars placed under 425

.1 **Alfabet**
For def mute alfabets, see 371.912

.2 **Vowels Diphthongs Aspirates**

.3 **Consonants**

.4 **Phonetic spelling Spelling reform**

.5 **Orthoepy**

.6 **Accent**

.7 **Paleografy Inscriptions**

.8 **Abbreviations**
For stenografic and other uncommon contractions and abbreviations, see 653 Shorthand

.9 **Punctuation**

422 Etymology Derivation

422 is limited to derivation. For inflection, also called etymology, see 425 1

.1 **Origin and laws of language**

.2 **Prefixes Suffixes**

.3 **Reduplication**

.4 **Foren elements**

.5 **Noun forms: case, number, diminutivs**

.6 **Adjectival forms Degrees of comparison**

.7 **Pronominal forms: personal, possessiv, relativ, etc.**

.8 **Verbal forms: moods, tense, voice, etc.**

.9 **Particles: adverbs, prepositions, etc.**

423 Dictionaries Idioms

.1 Idioms .2 English .3 German, etc. Put a dictionary of two languages with the less known language. Under 423 put only English-English dictionaries. Put an English-French dictionary with French, 443.2; a French-Latin dictionary with Latin, 473.4. If in several languages, put with 413, or with least known. Put French-French dictionaries 443, not 443.4, so that the standard home dictionaries shall come first in each language. This plan brings together under each of the less known, all the dictionaries for translating either into or from that language. Some prefer to put each dictionary under the first language; i. e. that by which it is alfabeted. This gives under *each* language, regardless of its familiarity, *all* dictionaries for translating *from* it, but none for translating *into* it. These must be sought under the language from which the translation is to be made. For a cosmopolitan library this plan is simplest and best; but in an English library. the first plan, with only English dictionaries in 423, and both *in* and *out* dictionarics together under little known tungs is more convenient, References in either case show what may be found in the other place

424 Synonyms Homonyms

425 Grammar

425 includes general works, covering also orthografy and prosody

.1 **Morphology Inflection** Divided .5 Nouns, etc. See 422

.2 **Syntax**

.3 **Arrangement of words and clauses**

.4 **Particular sentences: conditional, hypothetic, etc.**

.5 **Nouns**

.6 **Adjectivs Articles**

.7 **Pronouns**

.8 **Verbs**

.9 **Particles**

426 Prosody

See also the hed Prosody, in general grammars 425

.1 **Quantity and accent**

.2 **Versification**

.3 **Feet**

.4 **Figures of prosody**

.5 **Meters**

.6 **Rimes**

.7 **Strophe and antistrophe**

.8 **Textbooks for writing verse**

.9

427 Dialects Early forms of language Slang

Subdivided by geografic divisions like 942. The Yorkshire dialect is 427.74; Gloucestershire dialect 427.41. The dialects of other languages take the geografic subdivisions of their countries. Dialects not provided for in these heds are placed with the last; e. g. American and Scotch with 427.9. The division by time is made with a 5th figure after 0; the earliest form of the language is markt .01; .09 is used for modern slang, e. g. 427.01 Old English

428 School books Texts for learning the language

Including only books for *learning* the language, with grammatic or philologic notes, etc. For other works see the literature of the language, 820

.1 **Spelling books**

.2 **First lessons Elementary composition** For Rhetoric see 808.
Including in other languages books like Fasquelle, Ollendorff, Latin prose, etc. See also 372.6, Elementary grammars

.3 **Errors of speech Vulgarisms Use of words**
See 427.09 Slang; 424 Synonyms

.6 **Elementary readers** See also 372.4 Education

.7 **Selections**

.8 **Texts of individual authors**

.9 **Examination papers**

429 Anglo-Saxon

The above subdivisions of English are used for all other languages and for 410, Comparativ philology

All languages are subdivided like 420 English

430 German

437.01, Old High German; 437.02, Middle High German

439 Minor Teutonic

Including general works on Teutonic group

.1 Low German

.2 Frisian Old Saxon

.3 Dutch Flemish

.4 Platt Deutsch

.5 Scandinavian

.6 Old Norse Icelandic Faroese

.7 Swedish

.8 Danish Norwegian

.9 Gothic

440 French

449 Provençal

Old French, as the earliest form of the language, is 447.01

450 Italian

459 Wallachian

.9 Rumansh

460 Spanish

469 Portuguese

470 Latin

479 Minor Italic Medieval Latin

Including general works on Romance group

480 Greek

Divide 487, Greek dialects, like 930; e. g. 487.2 Alexandrian Greek; 487.3 New Testament Greek; 487.81 Macedonian; 487.923 Ionic, etc.

489 Minor Hellenic Modern Greek

Including general works on Hellenic group

Works on Latin and Greek together, unless very clearly most useful in the Latin, go with the Greek, which here as elsewhere is made to include general works on the ancient classics

490 Minor languages

Each language subdivided if wisht like 420 English

491 Minor Indo-European

Besides Teutonic, 420–439; Italic, 440–479; and Hellenic, 480–489

This hed, 491, includes general works on the Indo-European tungs, but general works on the Teutonic languages go in 439, on the Romance group in 479, on the Hellenic group in 489, while most of the material placed under 400–419 is really Indo-European; but see also 410

.1 Indic

.2 Sanskrit Prakrit

.3 Pali

.4 Modern East Indian languages

Excluding Dravidian, which is 494

.41 Sindi

.42 Panjabi

.43 Hindustani Hindi

.44 Bengali

.45 Uriya Orissa

.46 Marathi

.47 Gujerati

.48 Singhalese

.49

.5 Iranic

.51 Old Persian

.52 Zend (Avestan) Old Bactrian

.53 Pehlevi (Huzwaresh)

.54 Armenian

.55 Modern Persian

.56 Ossetic

.57 Kurdish

.58 Afghani

.59

.6 Keltic

.61 Gadhelic group

.62 Irish

.63 Gaelic or Scotch

.64 Manx

.65 Cymric group

.66 Welsh or Cymric

.67 Cornish

.68 Armorican or Bas Breton

.69 Basque

.7 Russian

.79 Ruthenian

491.8 **Other Slavonic**

Southeast Slavonic group

.81 Bulgarian (Church Slavonic)
.82 Servian
.83 Kroatian
.84 Slovenian

West Slavonic group

.85 Polish
.86 Bohemian
.87 Moravian Slovakian
.88 Sorbian
.89 Polabian

.9 **Lettic**

.91 Old Prussian
.92 Lithuanian
.93 Lettish (Livonian)

492 Semitic

Northern group

.1 **Aramaic**
.19 Babylon and Nineveh cuneiform
.2 **Chaldee**
.3 **Syriac (Peshito)**

Central group

.4 **Hebrew**
.5 **Samaritan**
.6 **Phenician (Carthaginian)**

Southern group

.7 **Arabic**
.8 **Ethiopic (Amharic)**
.9 **Himyaritic**

493 Hamitic

.1 **Old Egyptian**

See 419 Hieroglyfics

.2 **Coptic**

494 Scythian Ural-Altaic Turanian

Dravidian Tamil Finnish Turkish

495 Eastern Asiatic Chinese

496 African

Excluding 493 Hamitic, 492.8 Ethiopic, etc. included in families above

497 North American

498 South American

499 Malay-Polynesian and other

The Gipsy language is not assignd to any group, but is placed for convenience with 397 Gipsies

Natural Science

500 Science in general

501-509 all have *Science in general* as their subject, but it is treated in these various *forms*. A periodical on *Chemistry* goes with 540.5, not 505, which is only for periodicals on Science in general. o in any class number in any part of the classification shows the subject to be general, not specific

501 Philosofy Theories Utility, etc.

502 Compends, outlines Ancient and medieval science

503 Dictionaries Cyclopedias, etc.

504 Essays, lectures, addresses

505 Periodicals, scientific magazines

506 Societies, transactions, etc.

507 Education, methods of teaching and studying Museums

508 Polygrafy, collected works, extracts, etc.

.1 Extracts .2 .3 General scientific travels .4—.9 Travels and surveys (if general) divided geograficly like 940-999

509 History of science

510 Mathematics

Works on *Mathematics in general* not limited to any one or two sections, are groupt by form of treatment like Science in general above; *i. e.* into Mathematical

510.1 Philosofy .2 Collections, compends .3 Dictionaries .4 Essays, papers, tracts, letters .5 Periodicals .6 Societies .7 Education .8 Logarithmic and other tables, instruments .9 History

511 Arithmetic

See 372.7 Teaching elementary arithmetic

.1 **Systems of arithmetic**

See also 512.81 Theory of numbers

.2 **Notation and numeration Fundamental rules Abacus**
.3 **Prime numbers**
.4 **Fractions**
.5 **Analysis Permutation and combination**
.6 **Proportion and progression**
.61 Magic squares
.7 **Involution and evolution**
.8 **Mercantil rules Interest Alligation Mensuration Gaging**

See also 658 Business manuals

.9 **Problems and tables**

512 Algebra.

.1 **Systems of Algebra.**

.2 **Numerical Equations. Imaginary Expressions.**

.21 Equations, 1st to 4th degrees.
.22 Higher Numerical Equations.
.23 Indeterminate Equations. Diophantine Analysis.
.24 Imaginary Expressions.

.3 **Algebraical Equations. Maxima and Minima.**

.4 **Series. Fractions. Binomial Theorem. Taylor's Theorem.**

.5 **Combinatory Analysis.**

.6 **Proportion and Progression.**

.7 **Involution and Evolution.**

.8 **Higher Algebra.**

.81 Theory of Numbers. See 511.1, Systems of Arithmetic.
.82 Theory of Equations. Complex Variable. See also 517.8.
.83 Determinants.
.84 Symmetric Functions.
.85 Elimination. Eliminants and Discriminants.
.86 Transformations. Substitutions.
.87 Quantics.
88 Invariants. Covariants. Contravariants.
.89

.9 **Problems and Tables.**

513 Geometry.

Plane and Solid Geometry bound together is put 513. Descriptive Geometry is 515. See also Mathematical Drawing, 744.

.1 **Plane Geometry.**

.11 Right Lines.
.12 Intersecting Lines.
.13 Parallel Lines.
.14 Triangles.
.15 Quadrilaterals.
.16 Other Polygons.
.17 Similarity.
.18 Areas.
.19 Maxima and Minima

.2 **Curves.**

.21 Circles.
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

513.3 **Volumetric or Solid Geometry.**

.31 Lines and Planes.
.32 Intersecting Planes.
.33 Parallel Planes.
.34 Polyedrons.
.35 Pyramids.
.36 Prisms.
.37 Regular.

.4 **With Curved Surfaces.**

.41 Sphere.
.42 Cone.
.43 Cylinder.

.5 **Modern Geometry.**

.51 Points. Lines. Planes. Duality.
.52 Transversals.
.53 Cones. Conics. Involution.
.54 Radical Axes and Centres of Similitude.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Correspondence. Correlation of Figures.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvature.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 **Absolute or Non-Euclidean Geometry.**

.9 **Problems.**

514 Trigonometry.

.1 **Trigonometric Functions. General Formulæ.** See 522.7.

.2 **Trigonometric Series.**

.3 **Exponential Formulæ.**

.4 **Solution of Trigonometric Equations.**

.5 **Plane Trigonometry. Solution of Plane Triangles. Analytical.**

.6 **Spherical Trigonometry. General Formulæ.**

.7 **Solution of Spherical Triangles.**

.8 **Differences of Triangles, Plane and Spherical.**

.9 **Problems.**

515 Descriptive Geometry and Projections.

See also 744, Mathematical drawing.

.1 Orthogonal Projection on Two Planes.

.11 Straight Lines. Planes.
.12 Single Curved Lines.
.13 Double Curved Lines.
.14 Single Curved Surfaces.
.15 Double Curved Surfaces.
.16 Surfaces of Revolution.
.17 Warped Surfaces.
.18 Intersections of Surfaces.

.2 Isometric and Analogous Projections.

.3 Oblique Projection.

.4 Conical Projection.

.5 Spherical Projection. See 526.8, Map projection.

.51 Orthographic.
.52 Globular.
.53 Stereographic.
.54 Polar.
.55 Gnomonic.
.56 Conical.
.57 Cylindric.

.6 Perspective. See also 742, Drawing.

.61 Plane. Parallel. Oblique. Angular.
See also Scene Painting.
.62 Cylindrical.
See also Panorama Painting.
.63 Shadows; Natural and Artificial Light.
.64 Reflections.
.65 Circles, Cylinders and Spheres.
.66 Distortions and Corrections.
.67 Human Figure.
.68 New Methods. Special devices.

.7 Shades and Shadows.

.8 Stereotomy.

.81 Stone Cutting. See also 693.12, Masonry; 730, Sculpture.
.82 Carpentry. See also 694, Building.
.83 Stair Building. See also 694.8, Building; 729.39, Architectural design.

516 Analytical Geometry.

CARTESIAN.

.1 Plane Loci.

.11 Right Lines.
.12
.13
.14 Transformation of Co-ordinates.

.2 Curves.

.21
.22 Conic Sections.
.23 Ellipse.
.24 Hyperbola.
.25 Parabola.
.26 Higher Plane Curves.

.3 Loci in Space.

.31 Right Lines.
.32 Planes.
.33
.34 Transformation of Co-ordinates.

.4 Curved Surfaces.

.41
.42 Conicoids or Quadric Surfaces.
.43 Ellipsoid.
.44 Hyperboloid.
.45 Paraboloid.
.46 Surfaces of Higher Order.

.5 Modern Analytical Geometry.

.51 Systems of Co-ordinates.
.52 Abridged Notation.
.53 Conics.
.54 Higher Plane Curves.
.55 Poles and Polars. Reciprocal Polars.
.56 Harmonic and Anharmonic Properties.
.57 Method of Projection.
.58 Quadric Surfaces. Sphero-conics. Curves of Double Curvatures.
.59 Surfaces of Higher Order. Cubics.

.6

.7

.8 Quaternions. Calculus of Direction and Position

.9 Problems.

517 Calculus.

.1 **Infinitesimal. Method of Exhaustions.**
Differential and Integral Calculus, *bound together*, is put here.

.2 **Differential.**

.21 Series.
.22 Indeterminate Forms.
.23 Change of the Independent Variable.
.24 Theory of Plane Curves. Curve Tracing
.25
.26 Theory of Curved Surfaces.
.27 Maxima and Minima.
.28
.29 Problems.

.3 **Integral.**

.31 Formulæ of Reduction and Integration.
.32 Definite Integrals. Eulerian Integrals.
.33 Rectification. Quadrature. Cubature.
.34 Multiple Integrals.
.35 Laplace's Functions. Bessel's and Allied Functions.
.36 Elliptic and Hyperelliptic Functions. Abelian Functions.
.37
.38 Differential and Partial Differential Equations.
.39 Problems and Tables.

.4 **Of Variations.**

.5 **Of Functions.**

.6 **Of Finite Differences.**

.7 **Of Operations**

.8 **Of Imaginaries. Complex Variables.** See also 512.82.

.9 **Problems.**

519 Probabilities.

.1 General Principles. Direct and Inverse Probabilities.
.2 Mathematical and Moral Expectation.
.3 Testimony. Decisions of Juries and Tribunals.
.4 Probability of Future Events deduced from Experience.
.5 Life Contingencies. Annuities. Life Insurance. See 368.3.
.6 Errors of Observation. Mean or Average Values.
.7
.8 Method of Least Squares.
.9 Problems.

520 Astronomy.

520.1, Astrology, see 133.5; 520.2, Compends; 520.3, Dictionaries; 520.4, Essays; 520.5, Periodicals; 520.6. Societies; 520.7, Study and Teaching of Astronomy; 520.8, Collections, etc.; 520.9, History of Astronomy. See Note under Natural Science in General, 500-509.

521 Theoretical Astronomy.

Mathematical investigation of celestial motions, specially of the Solar System. The motions of individual bodies are classed under separate heads in 523.

.1 **Celestial Dynamics.**

.11 General Laws of Equilibrium and Motion. See also 531.2.
.12 Law of Universal Gravitation and Motion Relative to the Sun. See also 531.51.
.13 Problem of Three Bodies.
.14 Figures of Heavenly Bodies.
.15 Rotation of Heavenly Bodies.

.2 **Geocentric and Heliocentric Place.**

.21 Plane of Orbit in Space.
.22 Position of Orbit in its Plane.
.23 Position of Body in its Orbit.
.24 Position of Body in Space.
.25 Heliocentric Longitude and Latitude.
.26 Geocentric Longitude and Latitude.
.27 Variations of Right Ascension and Declination.
.28 Variations of Longitude and Latitude.
.29

.3 **Orbits.**

.31 Definitions of Orbits.
.32 Determination from Three Observations.
.33 Determination from Four Observations.
.34 Variation of Elements of Orbit.
.35 Correction of Approximate Elements of Orbit.
.36 Application of Method of Least Squares.
.37 Kepler's Problem.
.38 Equation of Center and Radius Vector.
.39

.4 **Perturbations.**

.41 Mutual Action of Planets.
.42 Action of Satellites.
.43 Non-Sphericity of Planets.
.44 Resisting Medium.

.5 **Theory of Planets.**

.6 **Theory of Satellites.**

.7 **Theory of Comets.**

.8 **Theory of Eclipses.**

.9 **Precession and Nutation.** See 522.95-6.

522 Practical and Spherical.

.1 Observatories.

.11 General Plan, Location
.12 Material and Mechanism of Dome, Drum, etc.
.13 Transit Buildings, Wings, etc.
.14 High Altitude Observatories.
.15 Portable.
.16
.17
.18
.19 History Reports and Serial publications of Observatories.

.2 Telescopes. See 535.83, Optics.

.21 Reflecting.
.22 Refracting.
.23 Eye Piece and Accessories.
.24 Object Glass.
.25 Mounting, Tube, etc.
.26 Equatorial Mounting.
.27 Transit Mounting.
.28 Observing Chairs, etc.
.29 Famous Telescopes.

.3 Meridional Instruments.

.31 Finding Meridian Line.
.32 Mural Circles.
.33 Meridian Circles.
.34 Transit, Placing in Position.
.35 Collimation Constant
.36 Level Constant.
.37 Azimuth Constant.
.38 Other Constants, Flexure, Index Error, etc.
.39

.4 Extra Meridional Instruments.

.41 Sextant and Quadrant, Reflecting Circle. Astrolabe
.42 Alt-azimuth.
.43 Zenith Telescope.
.44 Transit out of Meridian.
.45 Heliometer.
.46 Equatorial.
.47 Prime Vertical.
.48
.49

522.5 Auxiliary Instruments.

.51 Sidereal Clock and Chronometer
.52 Electro-Chronograph.
.53 Micrometers.
.54 Personal Equation Machine. See 522.97.
.55 For Illumination.
.56 For Solar Observation.
.57 Artificial Horizons.
.58 Heliostat.
.59

.6 Auxiliary Observations.

.61
.62 Photometry. See 535.2, Optics.
.63 Photography. See 535.85, Optics; 770, Photography.
.64
.65 Polarization. See 535.5, Optics.
.66
.67 Spectroscopy. See 535.84, "
.68
.69

.7 Spherical Astronomy. See also 524.6

.71 Celestial Sphere. Spherical Co-ordinates.
.72 Rectangular Co-ordinates.
.73 Transformation of Co-ordinates.
.74 Differential Variations of Co-ordinates.
.75 Interpolation.
.76 Meridian Line. Variation of Compass.
.77 Reduction of Observations to the Meridian.
.78 Use of Globes.
.79

.9 Corrections.

.91 Parallax.
.92 Refraction. See 535.3, Optics.
.93 Semi-Diameter of Celestial Bodies.
.94 Aberration.
.95 Precession. See 521.9.
.96 Nutation. " "
.97 Personal Equation. See 522.54.
.98 Instrumental Errors.
.99

523 Descriptive Astronomy.

.1 Universe.

.11 Structure of Universe.
.12 Nebular Hypothesis.
.13 Plurality of Worlds.
.14 Space and its Temperature.
.15 Resisting Medium.
.16 Cosmic Dust.
.17 Repulsive Force.

.2 Solar System.

.21 Distributive Laws of Planets.
.22
.23 Conjunctions and Oppositions.
.24 Motion of Solar System in Space.
.25 Constitution of Planetary System.
.26 Stability of Solar System. Ecliptic.
.27
.28 Orrery, Planetarium, Gyroscope, etc. See 531.34, Rotation.
.29 Zodiac.

.3 Moon.

.31 Constants (Size, Mass), Distance and Parallax.
.32 Heat and Light. Phases.
.33 Orbit and Motions: Sidereal Month, Tropical, Perigee and Apogee, Sun and Earth's Attraction, Librations. See also 521.6 for Orbit.
.34 Features of Surface, Mountains, Plains, etc.
.35 Atmosphere.
.36 Physical Condition.
.37 Spectrum.
.38 Eclipses.
.39 Charts, Photographs, etc.

.4 Planets.

.41 Mercury and intra-Mercurial.
.42 Venus.
.43 Mars.
.44 Asteroids.
.45 Jupiter.
.46 Saturn.
.47 Uranus.
.48 Neptune and trans-Neptunian.
.49 Charts, Photographs, etc.

.5 Meteors and Zodiacal Light.

.51 Aerolites.
.52 Fire-balls.
.53 Meteoric Showers, Radiant Points, etc.
.54 Systems of Meteors.
.55
.56 Connection of Comets and Meteors.
.57 Spectrum.
.58 Hight of Atmosphere from Observation.
.59 Zodiacal Light. Aurora Borealis.

523.6 Comets.

.61 Appearance and Development.
.62
.63 Orbits.
.64 Remarkable Comets.
.65
.66 Physical Constitution
.67 Spectrum.
.68
.69 Charts, Photographs, etc.

.7 Sun.

.71 Constants, Dimensions.
.72 Heat and Light: Theories as to Source.
.73 Apparent Motion. Rotation. See 525.38, Tables.
.74 Spots, Faculæ, and Other Features of Surface.
.75 Prominences, Chromosphere. Corona.
.76 Theories of Physical Constitution.
.77 Spectrum.
.78 Eclipses.
.79 Charts, Photographs, etc.

.8 Stars.

.81 Stellar Parallax, Distance.
.82 Heat and Light. Photometric Observations. Magnitude. Visibility.
.83 Proper Motion, Star-drift.
.84 Variable, Double, and Multiple Stars.
.85 Clusters and Nebulæ.
.86 Physical Constitution.
.87 Spectrum.
.88
.89 Constellations, Maps, etc.

.9 Transits and Occultations.

.91 Transits of Mercury.
.92 Transits of Venus and Solar Parallax.
.93 Delisle's Method.
.94 Halley's Method.
.95 Photographic Method.
.96 Transits of Venus to 1874.
.97 Transit of 1882.
.98
.99 Occultations.

[524 Maps, Observations, and Tables.

Series of observatory publications may be kept together under 524, or under 522.19 with the History and Reports of the Observatory. Special maps or observations e. g. on Sun or Moon are better placed in sub-sections 9 *under these heads*, with Charts and Photographs, e.g. 523.79, thus leaving these bracketed Nos. 524 to 524.9 blank. They are printed to provide a place in case it is wished to keep *all* Maps and Observations together.

.3 Of Moon. See also 523.39.
.4 Of Planets. See also 523.49.
.5
.6 Of Comets. See also 523.69.
.7 Of Sun. See also 523.79.
.8 Star Catalogues. See also 523.89.]

525 Earth.

.1 Constants.

.11 Mass. Weight.
.12 Density.
.13 Dimensions, Diameter.
.14 Figure. Geomorphy. Equatorial belt
.15 Distance from Sun.
.16 Parallax.

.2 Heat. Light.

.3 Orbits and Motions.

.31 Period of Revolution.
.32 Obliquity of Ecliptic to Equator.
.33 Eccentricity.
.34 Perturbations.
.35 Rotation.
.36 Foucault's Pendulum.
.37 Deviation of Falling Bodies and Projectiles.
.38 Tables of the Sun. Apparent Motion. See 523.73. Sun.

.4 Geographical Co-ordinates.

.41 Finding Latitude. See also 527.1.
.42 By Meridian Altitudes.
.43 By Pole Star.
.44 By Altitude of two or more Stars.
.45 By Other Methods.
.46 Finding Longitude. See also 527.2.
.47 Terrestrial Means. Chronometers. Telegraph. Signals.
.48 Celestial Signals. Eclipses. Occultations. Transits.
.49 Lunar Methods.

.5 Seasons.

.51 Effect of Inclination of Equator to Ecliptic.
.52 Effect of Eccentricity of Earth's Orbit.
.53 Secular Changes of Seasons.
.54 Seasons on Mars and Other Planets.

.6 Tides.

.61 Mathematical Theory.
.62 Effect of Sun and Moon in Producing Tides.
.63 Distribution, Diurnal Inequality, Spring and Neap, Priming and Lagging
.64 Establishment of a Port. Coast Form Modification.
.65 Velocity of Hight of Tide Wave.
.66 Tides on Inland Seas.
.67 Supposed Effect in Retarding Earth's Revolution.
.68 Tide Registering and Predicting Machines.
.69 Tide Tables.

.7 Twilight.

526 Geodesy.

.1 Theory and Determination of Earth's Figure.

.11 Potentials of Ellipsoids.
.12 Equilibrium of Rotating Spheroid.
.13 Law of Ellipticity.
.14 Airy's and Pratt's Theories as to Attraction of Mountains.
.15 Determination of Figure by Airy, by Bessel, and by Clarke.
.16 Ellipsoidal Figure and Position of Axes.
.17 Geoidal Figure.
.18
.19

.2 Base Measuring and Apparatus.

.21 Standards of Length and Temperature.
.22 Apparatus of Struve, Bessel, Colby, U. S. Coast Survey, U. S. Lake Survey, etc.
.23 Adjustments of Apparatus.
.24 Location of Base Line.
.25 Field Operations.
.26 Calculation of Results and Corrections.
.27 Verification.
.28
.29

.3 Field Work of Triangulation.

.31 Reconnaissance.
.32 Stations: Names, Signals, Tripods, Scaffolds and Towers, Surface and Underground Monuments.
.33 Observations, Instruments and Records.
.34 Reduction to Station's Center.
.35 Corrections for Phase of Signal and Eccentricity.
.36 Spirit Levelling.
.37 Barometric Levelling.
.38 Trigonometric Levelling.
} These are methods. See 551.53, for results, lists of hights, etc.
.39

.4 Computation of Triangulation.

.41 Spherical Excess.
.42 Legendre's Theorem.
.43 Chord Process.
.44 By Spherical Trigonometry.
.45 By Spheroidal Trigonometry. See also application of Least Squares, 522.5.

.46 L. M. Z. Formulæ and Applications.

.47 Direct Deduction by Bessel.
.48 Deduction by Puissant.
.49 Tables for Computation.

526.5 **Theory of Least Squares in Adjustment of Figures, etc.**

- ·51 Method of Independent Angles.
- 52 Adjustment of a Quadrilateral.
- ·53 Adjustment of Triangulation Net.
- ·54 Method of Directions.
- ·55 Adjustment for Closure of a Circuit.
- ·56 Method of Repetitions.
- ·57 Adjustments of Base Measures.
- ·58 Adjustments of Levelling.

.6 **Astronomic Determinations and their Connection with Geodetic Results.**

- .61 Latitude Determinations.
- .62 Longitude Determinations.
- .63 Azimuth Determinations.
- .64 Effect of Irregularities of Earth's Surface on Latitude, Longitude and Azimuth.
- .65 Effect of same on Angles of Triangle.

·7 **Gravity Experiments and Results.**

- ·71 Mathematical Theory.
- ·72 Pendulum Apparatus.
- ·73 Pendulum Operations.
- ·74 Corrections.
- ·75 Reduction of Results.

.8 **Map Projections.** See 515.5, Spherical projections.

- .81 Perspective Projections.
- .82 Orthomorphic Projections.
- .83 Development Projections.
- .84 Zenithal Projections.
- .85 Equivalent Projections.

·9 **Surveying.**

- ·91 Instruments and Methods. See 526.2.
- ·92 Measurement of Distances.
- ·93 Measurement of Angles.
- ·94 Measurement of Heights.
- ·95 Levelling. See 526.36–38.
- ·96 Plotting.
- ·97 Computation of Areas.
- ·98 Topographical Drawing.
- ·99 For Special Purposes. Military, Naval, Railroad, Mining, etc.

527 Navigation.

- .1 **Finding Latitude at Sea.** See also 52[illegible]
- .2 **Finding Longitude at Sea.** See also 525.40
- ·3 **Finding Time at Sea.** See also 529.74.
- .4 **Sumner's Method.**
- .5 **Great Circle Sailing.**
- .6
- ·7
- .8
- ·9

528 Ephemerides.

- .1 **American.**
- .2 **English.**
- .3 **German.**
- .4 **French.**
- .5 **Italian.**
- .6 **Spanish.**
- .7 **Slavic.**
- .8 **Scandinavian.**
- .9 **Construction of Ephemeris.**

529 Chronology.

- .1 **Sidereal and Solar Day:** Apparent and Mean Time, Equation of Time, Causes of Inequality.
- .2 **Solar Year, Months.**
- .3 **Calendars.** Including early and Oriental.
- .4 **Calendar of Julius Cæsar.**
- ·5 **Calendar of Gregory.**
- .6 **Ecclesiastical Calendar. Determination.**
  For feasts, etc., and calendars themselves, see 264.021, 264.031, etc.
- ·7 **Horology.**

- .71 Finding Time by Transit.
- .72 Finding by Equal Altitudes.
- ·73 Finding by Single Altitude.
- ·74 Finding by Sextant. See also 527.3.
- ·75 Time Systems, and Standards.
- .76 Distribution of Time.
- ·77 Cosmic Time.
- .78 Instruments for Measuring: Dials, Hour-glasses, Clocks, Watches, etc.
  See 522.51 for Sidereal Clocks and Chronometers.
  See 681 for Clock and Watch making.
- ·79

530 Physics.

Like Science in General, viz.:

General works only are arranged: 530.1, Philosophy; .2, Compends; .3, Dictionaries; .4 Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Education, Methods of Teaching, Experiments; .8, Physical Units, Measuring Instruments; .9, History.

531 Mechanics.

.1 **Pure Motion. Kinematics.**

.2 **Statics. Graphical statics.**

.21 Force and its Measure.
.22 Composition of Forces and Motions.
.23 Moments.
.24 Parallel Forces. Centre of Gravity.

.3 **Dynamics. Kinetics.**

.31 Rectilinear Motion.
.32 Vibration.
.33 Undulation.
.34 Rotation.
.35 Centrifugal and Centripetal Force.

.4 **Work. Friction.** See 621.89, Lubrication.

.41 Unit of Work.
.42 Diagram of Work.
.43 Laws of Friction. Modulus of Machines.
.44 Sliding Friction.
.45 Rolling Friction.

.5 **Gravity.**

.51 Law of Universal Gravitation.
.52 Laws of Falling Bodies.
.53 Pendulum.
.54 Mass, Density, etc
.55 Projectiles.
.56
.57
.58 Apparatus for Illustration.

.6 **Conservation of Energy.**

.7

.8 **Machines. Transmission of Force.**

.81 Lever and Balance.
.82 Wheel and Axle.
.83 Cord and Catenary.
.84 Pulley.
.85 Inclined Plane.
.86 Wedge.
.87 Screw.
.88

.9 **Tables. Problems. Questions.**

532 Liquids. Hydrostatics. Hydraulics.

.1 **Properties of Liquids. Pressure.**

.2 **Equilibrium of Liquids.**

.3 **Buoyant Effects. Floating Bodies.**

.4 **Specific Gravity. Hydrometer.**

.5 **Liquids in Motion.**

.51 Theoretical Flow.
.52 Orifices, Adjutages. Fluid Vein.
.53 Weirs, Overfalls.
.54 Pipes, Open Channels, Rivers.
.55 Bends, Valves, sudden enlargements and contractions.
.56 Efflux; variable pressure.
.57 Hydrometry. Velocity.
.58 Impulse and Resistance.
.59 Theory of Waves.

.6 **Capillary Attraction.**

.7 **Osmose. Absorption.**

.8 **Applications. Machines.** See 621.2, Water engines.

Except for libraries making Physics much more prominent than Useful Arts, all the "Applications" will be more useful under their proper heads in Useful Arts. It is better to keep all the material in one place, referring to it from the other, rather than attempt division.

.81 Hydraulic Press.
.82 Hydraulic Engine.
.83 Water Ram.
.84 Water Wheels.
.85 Water Blast.

.9 **Tables. Problems. Questions.**

533 Gases. Pneumatics.

.1 **Properties of Gases and Vapors.**

.2 **Laws of Compressibility.**

.3 **Atmosphere.**

.4 **Barometer.**

.5 **Air Pump**

.6 **Aeronautics.**

.7 **Kinetic Theory of Gases.**

.8 **Applications.** See 621.6, Blowing and Pumping engines.

Preferably go in Useful Arts, see 532.8, Note.

.82 Manometer. Pressure Gauges See 621.18, Steam generation.
.83 Condensing Pump.
.84 Force Pump.
.85 Suction Pump.
.86 Diving Bell.
.87 Forge Bellows.
.88 Pneumatic Dispatch.

.9 **Tables. Problems. Questions.**

534 Sound. Acoustics.

.1 **Theory. Undulations.**

.2 **Propagation of Sound. Velocity. Diffraction.**

.3 **Musical Sound. Tuning Forks.** See also 781.1, Theory of Music.

.4 **Analysis of Sounds. Resonators.**

.5 **Superposition of Vibrations.**

.6 **Graphical Representations.**

.7 **Physiological. Ear and Larynx.** See also 611.85, Anatomy; 612.85, Physiology; 612.78, Voice; 617.8, Surgery; 362.1 and .4, Hospitals; 152.2, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81

.82

.83 Signals in Navigation. See also 654.9, Communication.

.84 Applications to Architecture.

.85 Musical Instruments. See also 780, Music.

.86 Phonograph.

.9 **Tables. Problems. Questions.**

535 Light. Optics.

.1 **Theory.**

.2 **Propagation. Velocity. Measurement of Light.**

.3 **Reflection. Refraction. Absorption.** See also 522.92, Astronomy.

.4 **Dispersion. Diffraction. Interference.**

.5 **Polarization. Polariscope. Double Refraction.**

.6 **Color.**

.7 **Physiological. Eye.** See also 611.84, Anatomy; 612.84, Physiology; 617.7, Surgery; 362.1 and .4, Hospitals; 152.1, Psychology.

.8 **Applications.** Preferably go with topics elsewhere. See 532.8, Note.

.81 Lenses.

.82 Microscopes and Magnifiers. See also 578, Microscopy.

.83 Telescopes. See also 522.2, Astronomy.

.84 Spectroscopes and Spectrum Analysis. See also 544.6, Chemistry; 522.67, Astronomy; 523.37, Moon; 523.57, Meteors, etc.

.85 Photography. See also 770.

.86 Other Applications of Lenses.

.87 Mirrors and Reflecting Instruments.

.88 Lighthouses. See also 627.9, Harbor Engineering; 656, Commerce.

.89

.9 **Tables. Problems. Questions.**

536 Heat.

.1 **Theory. Nature.**

.2 **Communication.**

.3 **Action of Bodies on Heat.**

.31 Reflection.

.32 Refraction.

.33 Radiation.

.34 Absorption.

.35 Diathermancy.

.4 **Effects. Action of Heat on Bodies.**

.41 Expansion.

.42 Liquefaction.

.43 Solidification.

.44 Vaporization and Condensation.

.45 Incandescence.

.46 Combustion. Flame.

.5 **Temperature.** See also 551.52, Meteorology; 613.18, Hygiene.

.51 Thermometry.

.52 Pyrometry.

.53 Electric Methods of Measuring.

.6 **Calorimetry.**

.7 **Thermodynamics. Mechanical Equivalent.**

.8 **Applications.** Preferably go in Useful Arts. See 532.8, Note.

.81 Steam Engines. See 621.1, Engineering.

.82 Gas Engines. See 621.43, Engineering.

.83 Heating. See 697, 621.19, 628.8, 644.

.84 Ventilating. See 697, 622.4, 628.8.

.9 **Tables. Problems. Questions.**

537 Electricity.

.1 **Theory. Nature.**

.2 **Statical.**

.21 Quantity, Potential.

.22 Conduction, Distribution

.23 Machines.

.24 Condensers.

.25 Electrometers.

.3

.4 **Atmospheric. Lightning Rods.**

.5 **Dynamical.**

.51 Theory of Coils. Constants.

.52 Induction Spark.

.53 Induction Spark in rarified gases.

537.6 Electro Dynamics.
.7 Electrical Measurements.
.8 Applications. See 621.3. Preferably go in Useful Arts. See 532.8, Note.
.81 Telegraph. See 654.
.82 Telephone. Microphone.
.83 Dynamos. Electric Lighting.
.84 Transmission of Power. Storage.
.85 Electro-Metallurgy.
.86 Galvanometers. Batteries. Coils.
.87 Medicine. See also 615.84.
.88 Electric Signals.
.9 Tables. Problems. Questions.

538 Magnetism.

For "Animal Magnetism," Mesmerism, etc., see 134.

.1 Theory. Properties of Magnets. Lines of Force.
.2 Communication. Induction. Touch.
.3 Electro-Magnetism.
.4 Diamagnetism.
.5
.6
.7 Terrestrial Magnetism.
.8 Applied. Magnetic Machines.
.9 Tables. Problems. Questions.

539 Molecular Physics.

.1 Theory. Molecular Structure. Vortex Rings.
.2 Properties of Solids.
.3 Elasticity. Torsion.
.4 Strength of Materials.
.5 Permanent Displacement of Molecules.
.51 Malleability.
.52 Ductility.
.53 Hardness.
.54 Tempering.
.6 Intermolecular Forces.
.7
.8
.9 Tables. Problems. Questions.

540 Chemistry

Pure or theoretic chemistry
.1 Theories Alchemy Phlogiston .2 Compends .3 Dictionaries, cyclopedias .4 Essays, lectures, etc. .5 Periodicals .6 Societies .7 Education, methods of teaching .8 Collectiv works .9 History

SUMMARY

541–542	**General chemistry**
541	Chemic theories
542	Operativ and experimental chemistry
543–545	**Analytic chemistry**
543	Analysis
544	Qualitativ analysis
545	Quantitativ analysi
546	**Inorganic chemistry**
547	**Organic chemistry**

REFERENCES

612.015	Physiologic chemistry	660	Chemic technology
615	Medical "	669	Metallurgy
616.076	Pathologic "	770	Photografy

541 Theoretic chemistry Physical chemistry

Modern chemic theories General properties of bodies from chemic point of view Composition Constitution Elements and compounds Affinity Formulas Nomenclature

.1

.2 **Atomic theory**

Ultimate constitution of matter. Nature and phases of ultimate particles: atoms, ions, anions, kations, electrons. Atomicity. Relationship of mass to chemic properties of bodies. Laws of chemic combination: weight, definit proportions, equivalence, multiple proportions. Laws of volume for gases. Simple or compound nature of chemic elements. Molecules. Atomic and molecular weights; methods of determination. Atomic and molecular volumes. Laws fundamental to atomic theory; see also 541.9 Classification, periodic law, etc.
See also physics, 532.4 Specific weights

.3 **Physical chemistry**

Borderland between physics and chemistry. Including densities in different phases; chemic affinity, statics and dynamics; thermochemistry and electro-chemistry

.31 Solid state
See also physics, 536.43 Solidification; 539.2 Properties of solids

.32 Liquid state
See also physics, 532.1 Properties of liquids; 536.42 Liquefaction; 541.34 Solution

.321 General
Surface tension, vapor tension, viscosity, capillarity

.325 Special types of liquids: gelatinous liquids
.326 **Inorganic liquids**
.327 **Organic liquids**

.33 Gaseous state
Subdivide like 541.32. See also physics, 533.1 Properties of gases; 536.44 Vaporization

541.34 Solute state Solubility

.341 General

Surface tension, viscosity, diffusion, osmosis, conductivity. See also 532.7 Osmose of liquids; 542.7 Dissolving

1 **Theories: kinetic, hydrate and dissociation**

2 **Laws Terminology**

.342 Solution pressure Solubility

Tables of solubility

.344 Solubility and solution of different forms

1 Solids 2 Liquids 3 Gases Absorption

.345 Solution types

2 **Colloid solutions Emulsions**

Including general discussion of colloids

.346 Solvents

.35 Photochemistry

Relation of light to chemic action, of polarized light to chemic structure, etc.

.36 Thermochemistry

Relationship of heat to chemic properties of bodies. Thermodynamics and energetics applied to chemistry. Relations between specific heat and chemic constitutions. Molecular heats; atomic heats; latent heats of physical, allotropic, and chemic transformations. Principle of initial and final phases. Study of changes of phase. Melting points and boiling points. Liberation and absorption of heat in reactions. Exothermic and endothermic reactions. Variation with temperature of the quantity of heat used in transformations. Principle of maximum work

.37 Electrochemistry

.378 Magnetochemistry

.38 Radiochemistry

Chemistry of radioactiv substances

.39 Chemic dynamics, statics and equilibrium Affinity

Homogeneous and heterogeneous chemic equilibriums. Kinetic theory of chemic equilibriums (of Guldberg and Waage, Pfaundler, van't Hoff); thermodynamic theory (of Willard Gibbs, of Horstmann, of van't Hoff, of Duhem, etc) Reaction velocities. Accelerating and retarding influences. Catalysis. See also in physics 536.7 Thermodynamics and energetics

Variation of affinity with physical conditions. Valence. Combinations. Unlimited and limited decomposition. Dissociation, efflorescence, limits of dissociation and maximum dissociation. Combustion

.4 **Various types of compounds**

.5 **Molecular types**

.6 **Compound radicals**

Stereochemistry Formulas of structure

.7 **Allotropy**

Isomerism Amorphous and crystallin states Tautomerism Polymerism

Class here material on structure not included in 541.6

.9 **Other general subjects**

Classification Nomenclature Notation Formulas Stoichiometry Tables Periodic law

542 Practical and experimental chemistry

Manipulations Chemic operations For analyses see 543–545

.1 **Laboratories**

Interior construction and installation General arrangements For architecture see 727.5

.2 **Apparatus and manipulations** For special apparatus see 542.3–.9

.21 Manipulations Arrangements Procedure

.22 Preparation of substances

Mechanic separation: trituration, pulverization, porphyrization; mortars and pestles, crushers, sifting and sivs. Disintegration by wetting heated mass. Levigation

.23 Laboratory receptacles and their accessories

For uses of receptacles see also various processes and operations

.231 Glass and quartz

Beakers, bottles, flasks, retorts, test tubes, funnels, adapters, glass rods and tubing

5 **Glass manipulation: blowing, grinding**

.232 Porcelain

Evaporating dishes, tubes, retorts. Refractory pottery: crucibles, plates

.233 Metallic

Containers made of platinum, silver, iron, nickel, aluminum, etc.

.24 Supports Fixt, adjustable, wood. Triangles, tripods, clamps

.25 Stoppers Glass, cork, rubber Corkborers

.26 Rubber tubing Luting and cements

.29 Other appliances

.3 **Mesuring apparatus**

.32 Determination of weights and density

Balances and weights Descriptions and directions for use

.33 Specific gravity apparatus Class preferably in 532.4

.35 Determination of volume

Mesuring volume of liquid Calibrated vessels Graduated pipets, burets and cylinders

.4 **Heating Distillation**

See also 536.5 Mesurement and regulation of heat; 542.53 Blowpiping

.41 General

.42 Heating with coal

Laboratory furnaces: trough, cupola, reverberatory, tubular, cupel, blast

Tube furnaces for organic analysis

.43 Heating with liquid fuels, etc. Lamps; special burners

.44 Heating with gas

Coal gas, carburetted air, acetylene, etc.

Fishtail and Bunsen burners; gas furnaces and grates; pressure regulators

.46 Indirect heating

Baths and heaters: water baths; salt, metal and oil baths; metal plates or wire gauzes

.47 Electric heating

Heaters, muffles and furnaces; kryptol furnaces

See also 542.8 Electric and galvanic manipulations

.48 Operations

Melting, fusing, boiling. Vaporization, distillation. Distilling apparatus: alembics or stills. Deflegmators. Vacuum operations

Evaporation with heat: sublimation, dessication. For evaporation in vacuum see 542.77

.49 Other heating operations

542.5 **Flames Blowpipes**

See also 544.2 Dry methods of analysis; 669.9 Assaying

.51 Flame

Nature of flame; candle flame; oxidizing and reducing flames

.52 Coloration of flame

Beads, colord beads Composit flames

.53 Blowpipes

.6 **Aqueous and liquid treatment**

Dissolving, aqueous separation, levigation, etc; alcohol, ether, carbondisulfid, hydrocarbons, etc.

.61 Dissolving Solution

Solvents, maceration, digestion, decoction, lixiviation

.62 Determination of solubility Supersaturation

Supersaturated solution

.63 Diffusion

Lowering the solidification point or surfusion

.64 Dialysis Dializers

See also qualitativ analysis, 544.5 Dialysis

.65 Solidification

Precipitation, crystallization, crystallizers

.66 Decantation

Decantation funnels, Florentin receivers, siphons, pipets

.67 Filtration and filters

Filtration with textils, with paper, thru cotton, asbestos, powders, etc. Hot filtration Filtration in seald vessels, by suction, by compression Filter presses

.68 Expression and presses Drying of press residues; drying machines

.69 Washing Continuous, automatic; decantation, wash bottles

.7 **Gas manipulation**

See also 545.7 Eudiometry

.71 General

.72 Gas production

.73 Gas collecting and decanting

Pneumatic trough, gas sampling-tube, gas pipets; displacement and decanting

.74 Washing and dissolving gas

Wash bottles Apparatus for drying and absorbing gas

.75 Gas storage Gasometers, rubber bags

.76 Gas mesurement Graduated tubes, meters

.77 Rarefaction of gas

Pumps: air, vacuum, mercury; blowing engins, bellows, suction gasometers; manometers; vacuum regulators

See also physics, 533.5 Air pumps

.78 Gas compression

Seald tubes and bulbs, bellows, compression pumps, gasholders

.79 Gas liquefaction and solidification

Faraday tubes Apparatus for expansion; of Thilorier; of Cailletet and Linde

.8 **Electric and galvanic manipulations**

See also physics, 537.85 Applications of electricity to chemistry. Class here only apparatus for preparing chemic substances, not apparatus for study of phenomena. For analytic apparatus see special substance under 543 or special process under 544 or 545

.9 **Other operations**

Attacks by acids and gases; oxidations, reductions, etc.

543-545 Analytic chemistry

543 Analysis

Divided by material analyzed, whether qualitativly or quantitativly; i.e. substance takes precedence of process. Class in 543 general works covering both qualitativ and quantitativ analysis

See also 614.3 Adulterations

.1 **Analysis of food and drink**

See also 613.2 Hygiene, 612.39 Nutrition

.2 Dairy products Milk

See also agriculture, 637 Dairy products

.3 Water

See also hygiene 613.31 Water as a beverage; and therapeutics 615.79 Mineral waters

.4 **Analysis of drugs and medicins**

See also 614.35 Inspection of drugs; 615 Medicin

.5 Poisons

See also 615.9 Toxicology

.6 **Analysis of rocks and ores**

See also 549 Mineralogy, 669.9 Assaying, 631 Agricultural chemistry

.7 **Analysis of inorganic products in general**

For general works and special matter not provided for in previous subdivisions of 543

.8 **Analysis of organic products in general**

For general works and special matter not provided for in previous subdivisions of 543

.9 **Analysis of organic products of animal origin**

For general works and special matter not provided for in previous subdivisions of 543. See also 577 Biology

544 Qualitativ analysis

Determination of chemic elements of substances General processes and methods

.1 **Wet method**

.11 Reagents

.12 Determination of bases

.13 Determination of acids

.2 **Dry method**

See also 669.9 Assaying

.3 **Blowpiping**

See also 542.53 Manipulation, 549.1 Mineralogy

.4 **Gas analysis Reactions**

Identifying an isolated gas Analysis of gaseous mixtures See also 545.7 Eudiometry

.5 **Dialysis**

For technic see 542.64; for electric dialysis see 542.8

.6 **Spectrum analysis**

See also physics, 535.84 Spectrum analysis

.7 **Polariscopic analysis**

See also physics, 535.5 Polarization

.8 **Microscopic examinations**

.9 **Other methods**

Electro analysis

.92 Capillary analysis

545 Quantitativ analysis

.1 **Gravimetric**
Analysis by weighing, sampletaking

.2 **Wet method**
Titration solution, alkalimetry, acidimetry

.3 **Electric methods**
See also physics, 537.85 Electrometallurgy
For galvanoplastics see 671

.311 Constant current analysis

.312 Constant voltage analysis

.36 Catalytic analysis

.4 **Dry method**
Quantitativ analyses with blowpipe, cupellation, etc.
See also 669.9 Assaying

.5 **Titrometric methods in general**

.6 **Volumetric analysis of liquids**
See also 542.3 Mesuring apparatus

.7 **Volumetric analysis of gases**
Eudiometry and eudiometers; gas burets, absorption pipets
See also 544.4 Gas analysis

.8 **Other methods**
Colorimetric Polarimetric Refractometric

.9 Synthesis
General processes

.97 **Electric synthesis**

546 Inorganic chemistry

.1 **Nonmetallic elements**

.11 Hydrogen

.12 **Halogen group**

.13 Chlorin

.14 Bromin

.15 Iodin

.161 Fluorin

.17 **Nitrogen group** **Nitrogen**

.18 Phosphorus

.191 Arsenic

.2 **Oxygen group**

.21 Oxygen

.22 Sulfur

.23 Selenium

.241 Tellurium

.25 **Carbon group**

.26 Carbon

.27 Boron

.28 Silicon

.29 **Helium group**

.291 Helium

.292 Neon

.293 Argon

.294 Krypton

.295 Xenon

.3 **Metals**

.31 **Alkali group**

.32 Potassium

.33 Sodium

.34 Lithium

.35 Rubidium

.36 Cacsium

.37

.38

.39

.4 **Alkalin earths**
Calcium and magnesium groups considerd together

.41 Calcium

.42 Strontium

.43 Barium

.432 Radium

.44 **Magnesium group**

.45 Beryllium or glucinum

.46 Magnesium

.47 Zinc

.48 Cadmium

.49

546.5 **Led and silver group**
- .51 Led
- .52 Thallium

.55 **Silver group**
- .56 Copper
- .57 Silver
- .58 Mercury
- .59

.6 **Cerium group** **Rare earths**
- .61 Yttrium
- .62 Cerium
- .63 Lanthanum
- .64 Didymium
- .642 Praseodymium
- .643 Neodymium
- .65 Erbium
- .652 Ytterbium
- .653 Terbium
- .66 Aluminum
- .67 Indium
- .68 Gallium

.69 **Other metals of rare earths**
- .691 Scandium
- .692 Samarium or decipium
- .694 Gadolinium
- .695 Germanium
- .696 Europium
- .697 Thulium

.7 **Iron group**
Iron and chromium groups considerd together
- .71 Manganese
- .72 Iron
- .73 Cobalt
- .741 Nickel

.75 **Chromium group**
- .76 Chromium
- .77 Molybdenum
- .78 Tungsten or wolfram
- .791 Uranium

.8 **Tin group**
Tin and vanadium groups considerd together
- .81 Tin
- .82 Titanium
- .83 Zirconium
- .841 Thorium
- .842 Actinium

.85 **Vanadium group**
- .851 Vanadium
- .86 Antimony
- .87 Bismuth
- .88 Tantalum
- .891 Niobium or columbium
- .892 Polonium

546.9 **Platinum group**
Platinum and ruthenium groups considerd together
- .91 Gold
- .92 Platinum
- .93 Iridium
- .941 Osmium

.95 **Ruthenium group**
- .96 Ruthenium
- .97 Rhodium
- .981 Palladium

.99 **False and putativ elements**
Arrange alfabetically

547 Organic Chemistry.

.1 **Cyanogen and its Compounds.**

.2 **Hydrocarbons. Fatty Series.**
- .21 Paraffins.
- .22 Olefines.
- .23 Acetylenes.
- .24 Valylene. Dipropargyl, etc.

.25 **Aromatic Series.**
- .26 Benzenes.
- .27 Diphenyl Group.
- .28 Naphthalene. Anthracene. Phenanthrene.
- .29 Higher Series.

The seven heads 547.3 to 547.9 are sub-divided like 547.2.

.3 **Alcohols. Phenols.**

.4 **Ethers. Simple. Compound. Haloid.**

.5 **Aldehydes.**

.6 **Ketones. Quinones.**

.7 **Acids. Acid Halides. Acid Anhydrides. Sulpho-acids.**

.8 **Nitro-derivatives. Amines. Compound Ammoniums. Amids. Amic Acids. Azo-bodies. Azoxy-bodies. Hydrazo-bodies. Diazo-bodies.**

.9 **Compounds with Metals.**

548 Crystallography.

.1 Systems of Crystallization.
.2 Twin Crystals. Crystalline Aggregations.
.3 Cleavage. Isomorphism. Polymorphism.
.4 Irregularities. Internal Imperfections.
.5 Formation and Growth of Crystals.
.6 Pseudomorphs.
.7 Mathematical. Measurement of Angles.
.8 Physical.
.9 Optical.

549 Mineralogy.

.01, Philosophy, Classification; .02, Compends; .03, Dictionaries; .04, Essays, Papers, etc.; .05, Periodicals; .06, Societies; .07, Study and Teaching, Museums; .08, Collective Works; .09, History.

.1 Determinative. Blowpiping. See also 542.5; 544.3.
.2 Native Elements.
.3 Sulphides, Tellurides, Selenides, Arsenides, Antimonides, Bismuthides.
.4 Compounds of Chlorine, Bromine, Iodine, and Fluorine.
.5 Oxygen Compounds. Oxids.
.6 Silicates.
.61 Anhydrous.
.65 Hydrous.
.7 Other Ternary Oxygen Compounds.
.71 Tantalates. Columbates.
.72 Phosphates. Arsenates. Vanadates. Antimonates. Nitrates.
.73 Borates.
.74 Tungstates. Molybdates. Chromates.
.75 Anhydrous Sulphates.
.76 Hydrous Sulphates.
.77 Tellurates.
.78 Carbonates.
.79 Oxalates.
.8 Hydrocarbons.
.9 Geographical Distribution.

550 Geology.

550.1, Philosophy, Theories, Geological Time; .2, Compends; .3, Dictionaries; .4, Essays, Papers, Tracts, Letters; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

551 Physical and Dynamical Geology.

Including Physical Geography. For Cosmical Geography, see 523.

.1 Structure of Earth as a Whole.
.11 Interior of Earth.
.12 Internal Heat.
.13 Earth's Crust.
.14 Conductivity of Rocks.
.2 Seismology.
.21 Volcanoes.
.22 Earthquakes.
.23 Hot Springs, Geysers.
.24 Oscillations of the Earth's Crust.
.3 Erosion and Deposition.
.31 Glaciers and Glacial Phenomena.
.32 Moraines.
.33 Transported Materials, Till.
.34 Icebergs.
.35 Aqueous Erosion.
.36 Coast Changes.
.37 Aerial Erosion.
.4 Surface Features of the Earth.
.41 Continents.
.42 Islands.
.43 Mountains. Valleys. Orology.
.44 Caves.
.45 Plains.
.46 Oceans.
.47 Ocean Currents.
.48 Rivers. Lakes.
.49 Springs. Wells. Ground water.

Division of Oceans for use under .46 and .47.
1, Atlantic. North Sea. Baltic.
2, Mediterranean. Black Sea.
3, Gulf of Mexico. Caribbean.
4, Southern Atlantic.
5, Pacific.
6, Eastern Pacific or American Coast.
7, Indian. Bay of Bengal. Red Sea.
8, Arctic.
9, Antarctic.

.5 Meteorology.
.51 Atmospheric Currents. Winds.
.52 Thermometry, Heat. See also 536.5, Temperature; 613.18, Hygiene.
.53 Hypsometry. See 526.36-8 for Methods.
.54 Barometry, Pressure.
.55 Storms.
.56 Climate.
.57 Moisture. Rainfall. Flow of Streams. Floods.
.58 Prairies, Forests, and Deserts.
.6 Metamorphism.
.7 Stratigraphical Geology.
.71 Archæan.
.72 Cambrian.
.73 Silurian. .731, Lower Silurian; .732, Upper Silurian.
.74 Devonian. Old red sandstone.
.75 Carboniferous.
.76 Triassic and Jurassic. Lias. Oolite.
.77 Cretaceous.
.78 Tertiary. .781, Eocene. .782, Miocene. .783, Pliocene.
.79 Quaternary. Postpliocene. Glacial. .791, Recent.

551.8 **Structural Geology.**

.81 Stratification.
.82 Curvature and Contortion.
.83 Ripple Marks and Sun Cracks.
.84 Joints. Cleavage. Polarity in Rocks.
.85 Dip. Outcrop. Strike.
.86 Anticlinal. Synclinal.
.87 Faults and Folds. Dislocations.
.88 Veins. Dykes. Necks. Bosses.
.89

.9 **Agents of Geological Work.**

.91 Frost.
.92 Water.
.93 Atmosphere.
.94 Chemical Changes. Heat.
.95 Animals.
.96 Coral Reefs.
.97 Plants.
.98 Segregation and Concretion.
.99 Other Agents.

552 Lithology, Petrography, Petrology.

.1 **Igneous Rocks.**

.2 **Volcanic Rocks.**

.21 Lavas. Scoria.
.22 Volcanic Ashes. Volcanic Tufa. Tuff.
.23 Obsidian. Pumice. Pitchstone.
.24 Trachyte.
.25 Rhyolite.
.26 Andesite. Dacite. Phonolite.
.27 Felsites.
.28 Basalt.
.29 Other Volcanic Rocks.

.3 **Plutonic Rocks.**

.31 Porphyry. Porphyrite.
.32 Syenite.
.33 Granite.
.34 Diabase and Gabbro.
.35 Dolerite.
.36 Diorite.
.37 Norite.
.38 Peridotite.
.39 Other Plutonic Rocks.

.4 **Metamorphic Rocks.**

.41 Granites and Syenites.
.42 Gneiss.
.43 Schists.
.44 Slates. Argillite. Phyllite.
.45 Quartzite. Novaculite. Itacolumite.
.46 Marble. Crystalline limestone.
.47 Serpentine.
.48 Chrysolitic Rocks.
.49 Other Metamorphic Rocks.

552.5 **Sedimentary Rocks**

.51 Sandstone. Conglomerate. Sand. Gravel.
.52 Shale. Clay Silt.
.53 Gypsum. Salt.
.54 Limestone. Marl. Ooze.
.55 Dolomite.
.56 Oölite.
.57 Infusorial or Diatomaceous Earth.
.58 Glauconite. Greensand.
.59 Other Sedimentary Rocks.

.6 **Meteorites.**

.7 **Decay of Rocks.**

.8 **Microscopical Petrography.**

.81 Determination of Rock Minerals.
.82 Rock Structure.

553 Economic Geology. See also 622.1, Mining engineering.

.1 **Ore Deposits.**

.11 Formation and Structure.
.12 Classification.
.13 Superficial. Placers.
.14 Stratified. Beds, etc.
.15 Unstratified.
.16 Disseminated through eruptive rocks.
.17 Stockwerks. Fahlbands. Contacts.
.18 Chambers and Pockets. Impregnations.
.19 Mineral Veins.

.2 **Carbon Series.**

.21 Peat.
.22 Lignite and Jet.
.23 Cannel Coal. Bituminous Shale.
.24 Bituminous and Semi-Bituminous Coals.
.25 Anthracite and Graphitic Anthracite.
.26 Graphite. Plumbago.
.27 Asphalt and Asphaltic Coals. Ozocerite.
.28 Petroleum. Natural Gas.
.29 Fossil Gums and Resins.

[While the history of all the other products goes here, the history of the metals is more useful in 669, Metallurgy.]

.3 **Ores of Iron.**

.4 **Ores of Metals other than Iron.**

.41 Ores of Gold.
.42 Ores of Silver.
.43 Ores of Copper.
.44 Ores of Lead.
.45 Ores of Zinc and Tin. Mercury.
.46 Ores of Manganese and Chromium
.47 Ores of Antimony and Arsenic.
.48 Ores of Nickel and Cobalt.
.49 Other Metallic Ores.

553.5 **Building Stones.**
.51 Marbles and Limestones.
.52 Granites and Syenites.
.53 Sandstones.
.54 Slates.
.55 Serpentines. Soapstones.
.56 Porphyries.
.57 Trap.
.58 Tufa. Peperino.
.59 Other Building Stones.

.6 **Earthy Economic Minerals.**
.61 Fire Clays. Brick Clays. Potter's Clays.
.62 Sands.
.63 Rock Salt. Gypsum.
.64 Phosphates. Apatite. Guano. See also 631.
.65 Emery.
.66 Heavy Spar. Sulphur.
.67 Asbestus, etc.
.68 Limes and Mineral Cements.
.69 Other Earthy Economic Minerals.

.7 **Mineral Waters.**
.71 Alkaline.
.72 Saline.
.73 Chalybeate, iron-bearing.
.74 Sulphuric.
.75 Calcic.
See also 551.23.

Divide general works geographically like 930–999; e. g. Mineral waters of Germany, 553.7043

.8 **Gems. Ornamental Stones.**

.9 **Other Economic Minerals.**

554 Geology of Europe. 554–559 subdivided by countries like 940–999.
555 Geology of Asia.
556 Geology of Africa.
557 Geology of North America.
558 Geology of South America.
559 Geology of Oceanica. Polar Regions.

560 Paleontology. Use form divisions as in 550 and divide .9 geographically like 930–999; e. g. Paleontology of Germany is 560.943.

561 Plants. 561 is subdivided like Botany, 580.
562 Invertebrates. 562–569 is subdivided like Zoology, 592–599.
563 Protozoa. Radiates.
564 Mollusks.
565 Articulates.
566 Vertebrates.
567 Fishes. Batrachia.
568 Reptiles. Birds.
569 Mammals.

570 Biology.

570.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Museums; .8, Collective Works; .9, History.

571 Prehistoric Archæology.

For Customs, see 390. For archæology of special countries, see 913.

.1 **Paleolithic, or Early Stone Age.**
.11 Drift Remains.
.12 Cave Men.
.13 Remains of Animals. Shells.
.14 Chipped Stones.
.15 Flint Flakes. Arrow Heads. Knives, etc.
.16 Other Stone Remains.
.19 Other Remains.

.2 **Neolithic, or Late Stone Age.**
.21 Stone Quarries.
.22
.23 Remains of Animals.
.24 Polished Stones.
.25 Sharpened Stones. Celts. Tools. Weapons.
.26 Perforated Stones. Spindles. Net Sinkers. Pipes.
.27 Hollowed Stones. Mortars. Cups. Food Vessels.
.28 Other Stone Remains.
.29 Other Remains.

.3 **Bronze Age.**
.31 Ancient Copper and Tin Mining.
.34 Bronze Remains.
.35 Tools. Weapons, etc.
.37 Cups. Vessels.
.39 Other Remains.

.4 **Iron Age.**

.5 **Other Remains.**
.51 Implements of Wood.
.52 Implements of Bone.
.53 Basket Work.
.54 Textile Fabrics.
.55 Pottery.
.56 Glass.
.6

.7 **Rudiments of Art. Ornaments.**
.71 Drawings.
.72 Paint.
.73 Sculptures.
.74 Beads.

.8 **Dwellings.**
.81 Natural Caves.
.82 Earth Houses. Pit Dwellings. Weems.
.83 Lake Dwellings. Crannoges.
.84 Cliff Dwellings.
.85 Pueblos.
.86 Tents as Dwellings.

571.9 **Mounds and Monuments.**
- .91 Mounds and Mound Builders.
- .92 Grave Mounds.
- .93 Kitchen Middens. Shell Banks
- .94 Monoliths. Cromlechs.
- .95 Circles. Labyrinths.
- .96 Cairns.
- .97
- .98
- .99

572 Ethnology. Anthropology.

See also 136.4, Mental race characteristics.

- .1 **Unity of the Human Race.**
- .2 **Diversity of Races.**
- .3 **Migrations of Men.**
- .4 **Original Home of Man. Eden, Atlantis, etc.**
- .5
- .6
- .7
- .8 **Races divided by Language like 400.**
- .9 **Races divided by Countries like 930-999.**

Divide by countries where possible. Use language divisions for groups like Semitic, Aryan, Teutonic, English, etc.

573 Natural History of Man.

- .1 **Man's Place in Nature.**
- .2 **Origin of Man.**
- .3 **Antiquity of Man.**
- .4 **Influence of Climate and Surroundings.**
- .5 **Color in Man.**
- .6 **Anthropometry.**
- .7 **Craniology.**
- .8 **Dwarfs and Giants.**
- .9 **Monstrosities.** See also 613.91, Congenital defects; 617.3, Deformities.

574 Homologies.

575 Evolution. See also 213, Creation; 215, Religion and Science; 239.8, Apologetics.

- .1 **Heredity.** See also 136.3, Mental; 233.3, Moral; 129.2, Origin of soul.
- .2 **Variation.** See also 591.15, Physiological zoölogy.
- .3 **Environment.** See also 136.2, Mental; 573.4.
- .4 **Natural Selection.**
- .5 **Sexual Selection.**
- .6 **Development. Survival of the Fittest.**
- .7 **Degeneration.**
- .8 **Origin of Species.**
- .9 **Origin of Sexes.** See also 591.36, Embryology.

576 Origin and Beginnings of Life.

- .1 **Spontaneous Generation.**
- .2 **Protoplasm. Bioplasm.**
- .3 **Cells.**
- .4 **Beginnings of Motion and Sensation.**
- .5
- .6

577 Properties of Living Matter.

- .1 **Chemical. Difference between Organic and Inorganic.**
- .2 **Life. Difference between Dead and Living Matter.**
- .3 **Difference between Vital and Physical Phenomena.**
- .4 **Conditions of Life. Moisture. Temperature.**
- .5 **Difference between Plants and Animals.**
- .6 **Vital Force.**
- .7 **Death.**
- .8 **Sex in Nature.**
- .9

578 Microscopy. See also 535.82, Optics.

- .1 **Varieties of Microscopes.**
- .2 **Optical Parts.**
- .3 **Mechanical Parts.**
- .4 **Accessory Apparatus and Management of Microscope.**
- .5 **Illuminating Apparatus.**
- .6 **Preparation and Mounting of Objects.**
- .7 **Special Preparation and Study of Inorganic Material.**
- .8 " **Botanical Material.** See 581.8, Histology.
- .9 " **Zoological Material.** 591.8, "

579 Collectors' Manuals.

- .1 **Preparing Skeletons.**
- .2 **Preservatives and Hardening Fluids.**
- .3 **Injections.**
- .4 **Taxidermy.**
- .5 **Mounting Specimens.**
- .6 **Collecting.**

  .11, Alluring; Bait, Light, etc. .12, Hunting; Nets, Collecting bottle, etc. .13, Killing .14, Exchange. Purchase. .15, Rearing. .16, Transporting.
- .7 **Arrangement of Specimens in Museums.**

  .71, Cabinets. .72, Labels.
- .8 **Preservation of Specimens.**

  .81, Museum Pests. .82, Pestifuges. .83, Prevention of moisture. .84, Retention of colors.
- .9

580 Botany.

580.1, Philosophy, Classification, Nomenclature; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching. Herbariums, Botanic Gardens; .8, Collective Works; .9, History.

581 Physiological and Structural Botany.

Subdivided where wished like 591.

.1 **Physiology.**
.2 **Pathology. Teratology.**
.21 Diseases.
.22 Teratology.
.23 Parasites.
.3 **Embryology. Germination.**
.4 **Morphology. Comparative Anatomy.**
.5 **Habits.**
.6 **Economic.**
.7 **Organography. Descriptive Anatomy.**
.8 **Histology.** See 578.8

.9 Geographical.

.91 Distribution of Plants.

.93–99 is subdivided like 930–999.

This Geographical Classification is to be used only for general works and cross-references. The "Flora of North America" is put 581.97; but "North American Cryptogams" is classed 586 with a reference from 581.97, but No. Am. Phanerogamia goes with 581.97 because it so completely covers the subject.

General Works covering both Phanerogamia and Cryptogamia are put under 580, as books on Vertebrates and Invertebrates are put under 590.

In applying these numbers to Fossil Plants, 561, note that one more figure must be used than in Fossil Animals. The Zoölogy numbers are already given in the third place in Paleontology, e. g. 592 Invertebrates, 562 Fossil Invertebrates, and so on to 599 Mammals, and 569 Fossil Mammals. But in Fossil Plants, 561, all eight sections are grouped together and the section number must be repeated. Fossil Phanerogams are 561.2 not 562, which is assigned to Invertebrate Zoölogy as more important. Lichens are 561.91, etc. In the same way the Fossil Flora of North America is 561.197, i. e., the first two Botany figures, 58, are changed to 561 to give the corresponding Fossil Botany number, while in Zoölogy the only change is from 59 to 56 for first two figures, except in 591 which cannot change to 561, which is assigned to Botany. The Fossil Fauna of North America must therefore go among general works under 560.97.

582 Phanerogamia See also Trees 715.

The sub-sections below are taken from the recognized authority, Bentham and Hooker's Genera Plantarum.

583 Dicotyledonæ

.1 **Polypetalæ.**
.11 Ranales.
.111 Ranunculaceæ.
.112 Dilleniaceæ.
.113 Calycanthaceæ.
.114 Magnoliaceæ.
.115 Anonaceæ.
.116 Menispermaceæ.
.117 Berberideæ.
.118 Nymphæaceæ.

583.12 Parietales.
.121 Sarraceniaceæ.
.122 Papaveraceæ.
.123 Cruciferæ.
.131 Capparideæ.
.133 Resedaceæ.
.134 Cistineæ.
.135 Violarieæ.
.137 Canellaceæ.
.138 Bixineæ.
.14 Polygalineæ.
.141 Pittosporeæ.
.142 Tremandreæ.
.143 Polygaleæ.
.145 Vochysiaceæ.
.15 Caryophyllineæ.
.151 Frankeniaceæ
.152 Caryophylleæ.
.153 Sileneæ.
.154 Alsineæ.
.155 Polycarpeæ.
.156 Portulaceæ.
.158 Tamariscineæ.
.16 Guttiferales.
.161 Elatineæ.
.162 Hypericineæ.
.163 Guttiferæ.
.166 Ternstrœmiaceæ.
.167 Dipterocarpeæ.
.168 Chlænaceæ.
.17 Malvales. Malvaceæ.
.18 Sterculiaceæ.
.19 Tiliaceæ.
.21 Geraniales.
.211 Lineæ.
.213 Humiriaceæ.
.214 Malpighiaceæ.
.221 Zygophylleæ.
.223 Geraniaceæ.
.23 Rutaceæ.
.241 Simarubeæ.
.245 Ochnaceæ.
.247 Burseraceæ.
.251 Meliaceæ.
.255 Chaillettiaceæ.

583.26 **Olacales.**
.261 Olacineæ.
.269 Ilicineæ.
.27 **Celastrales.**
.271 Celastrineæ.
.274 Stackhousieæ.
.275 Rhamneæ.
.279 Ampelideæ.
.28 **Sapindales.**
.281 Sapindaceæ.
.291 Sabiaceæ.
.292 Anacardiaceæ.
.297 **Anomola.**
.298 Coriarieæ.
.299 Moringeæ.
.3 **Rosales.**
.31 Connaraceæ.
.32 Leguminosæ.
.37 Rosaceæ.
.38 Saxifrageæ.
.39 Crassulaceæ.
.393 Droseraceæ.
.394 Hamamelideæ.
.396 Bruniaceæ.
.398 Halorageæ.
.4 **Myrtales.**
.411 Rhizophoreæ.
.414 Combretaceæ.
.42 Myrtaceæ.
.43 Melastomaceæ.
.441 Lythrarieæ.
.445 Onagrarieæ.
.45 **Passiflorales.**
.451 Samydaceæ.
.453 Loaseæ.
.455 Turneraceæ.
.456 Passifloreæ.
.461 Cucurbitaceæ.
.468 Begoniaceæ.
.469 Datisceæ.
.47 **Ficoidales.**
.471 Cacteæ.
.475 Ficoideæ.
.48 **Umbellales.**
.481 Umbelliferæ.
.491 Araliaceæ.
.497 Cornaceæ.

583.5 **Gamopetalæ.**
.51 **Rubiales.** Caprifoliaceæ.
.52 Rubiaceæ.
.53 **Asterales.**
.531 Valerianeæ.
.541 Dipsaceæ
.546 Calycereæ.
.55 Compositæ.
.57 **Campanales.** Stylidieæ.
.58 Goodenovieæ.
.59 Campanulaceæ.
.6 **Ericales.**
.61 Vacciniaceæ
.62 Ericaceæ.
.63 Monotropeæ
.64 Epacrideæ.
.65 Diapensiaceæ.
.66 Lennoaceæ.
.67 **Primulales.**
.671 Plumbagineæ.
.672 Primulaceæ.
.677 Myrsineæ
.68 **Ebenales.**
.681 Sapotaceæ.
.685 Ebenaceæ
.686 Styraceæ
.7 **Gentianales**
.71 Oleaceæ.
.716 Salvadoraceæ.
.72 Apocynaceæ.
.73 Asclepiadeæ.
.74 Loganiaceæ
.75 Gentianeæ.
.76 **Polemoniales.**
.761 Polemoniaceæ.
.764 Hydrophyllaceæ.
.77 Boragineæ.
.78 Convolvulaceæ.
.79 Solanaceæ
.8 **Personales.**
.81 Scrophularineæ.
.821 Orobanchaceæ.
.825 Lentibularieæ.
.829 Columelliaceæ
.83 Gesneraceæ.
.84 Bignoniaceæ.
.85 Pedalineæ.
.86 Acanthaceæ.
.87 **Lamiales.**
.871 Myoporineæ.
.876 Selagineæ.
.88 Verbenaceæ.
.891 Labiatæ.
.899 **Ordo anomalus.** Plantagineæ.

583.9 **Apetalæ.**

.91 **Curvembryeæ.**
.911 Nyctagineæ.
.912 Illecebraceæ.
.913 Amarantaceæ.
.914 Chenopodiaceæ.
.915 Phytolaccaceæ.
.916 Batideæ.
.917 Polygonaceæ.
.92 **Multiovulatæ Aquaticæ.**
.921 Podostemaceæ.
.922 **Multiovulatæ Terrestres.** Nepenthaceæ.
.923 Cytinaceæ.
.924 Aristolochiaceæ.
.925 **Micrembryeæ.** Piperaceæ.
.926 Chloranthaceæ.
.927 Myristiceæ.
.928 Monimiaceæ.
.93 **Daphnales.**
.931 Laurineæ.
.932 Proteaceæ.
.933 Thymelæaceæ.
.934 Penæaceæ.
.935 Elæagnaceæ.
.94 **Achlamydosporeæ.**
.941 Loranthaceæ.
.943 Santalaceæ.
.947 Balanophoreæ.
.95 **Unisexuales.**
.951 Euphorbiaceæ.
.961 Balanopseæ.
.962 Urticaceæ.
.971 Platanaceæ.
.972 Leitnerieæ.
.973 Juglandeæ.
.974 Myricaceæ.
.975 Casuarineæ.
.976 Cupuliferæ.
.98 **Anomali.**
.981 Salicineæ.
.983 Lacistemaceæ.
.984 Empetraceæ.
.987 Ceratophylleæ.

584 Monocotyledonæ.

.1 **Microspermeæ.**
.11 Hydrocharideæ.
.13 Burmanniaceæ.
.15 Orchideæ.
.2 **Epigyneæ.**
.21 Scitamineæ.
.22 Bromeliaceæ.
.23 Hæmodoraceæ.
.24 Irideæ.
.25 Amaryllideæ.
.26 Taccaceæ.
.27 Dioscoreaceæ.
.3 **Coronarieæ.**
.31 Roxburghiaceæ.
.32 Liliaceæ.
.34 Pontederiaceæ.
.35 Philydraceæ.
.36 Xyrideæ.
.37 Mayaceæ.
.38 Commelinaceæ.
.39 Rapateaceæ.
.4 **Calycineæ.**
.41 Flagellarieæ.
.45 Juncaceæ.
.5 Palmæ.
.6 **Nudifloreæ.**
.61 Pandaneæ.
.62 Cyclanthaceæ
.63 Typhaceæ.
.64 Aroideæ.
.68 Lemnaceæ.
.7 **Apocarpeæ.**
.71 Triurideæ.
.72 Alismaceæ.
.74 Naiadaceæ.
.8 **Glumaceæ.**
.81 Eriocauleæ.
.82 Centrolepideæ.
.83 Restiaceæ.
.84 Cyperaceæ.
.9 Gramineæ.

585 Gymnospermæ.

.1 **Gnetaceæ.**
.2 **Coniferæ.**
.9 **Cycadaceæ.**

586 Cryptogamia.

587 Pteridophyta.

.1 **Isoeteæ.**
.2 **Equisetæ.**
.3 **Filicinæ.**
.9 **Lycopodinæ.**

588 Bryophyta.

.1 **Sphagna.**
.2 **Musci.**
.3 **Hepaticæ.**
.4 **Characeæ.**

589 Thallophyta.

.1 **Lichenes.**
.11 **Basidiolichenes.**
.15 **Ascolichenes.**
.16 Angiocarpæ.
.17 Gymnocarpæ.
.18 Gelatinosæ.
.19 Byssaceæ.
.2 **Fungi.**
.21 **Carposporeæ.**
.22 Basidiomycetes.
.221 Gasteromycetes.
.222 Hymenomycetes.
.224 Tremellinæ.
.225 Uredineæ.
.227 Ustilagineæ.
.229 Entomophthoreæ.
.23 Ascomycetes.
.231 Tuberaceæ.
.233 Discomycetes.
.235 Pyrenomycetes.
.238 Gymnoasceæ.
.24 **Oosporeæ.**
.25 Peronosporeæ.
.26 Saprolegnieæ.
.27 **Zygosporeæ.**
.28 Zygomycetes.
.29 Myxomycetes.
.3 **Algæ.**
.4 **Carposporeæ.**
.41 Florideæ.
.47 Coleochaeteæ.
.5 **Oosporeæ.**
.6 **Zygosporeæ.**
.61 Conjugateæ.
.67 Zoosporeæ.
.7 **Protophyta.**
.8 **Chlorophyllaceæ.**
.9 **Achlorophyllaceæ.**
.91 Saccharomycetes. **Yeast.**
.95 Schizomycetes. Bacteria. **Microbes.**
See also 614.41, Origin of infectious diseases; 616.01, Germ theory of disease.

590 Zoology.

590.1, Philosophy, Classification; .2, Compends; .3. Dictionaries; .4, Essays, Lectures, etc.; .5, Periodicals; .6, Societies; .7, Study and Teaching, Zoological Gardens, Aquaria, Museums; .8, Collective Works; .9, History.

591 Physiological Zoology.

.1 **Physiology.**
.11 Circulation.
.12 Respiration.
1, Nature; 2, Dermal; 3, Aquivascular; 5, Branchial; 6, Tracheal; 7, Pulmonary; 9, Exhalation of Aqueous Vapor.
.13 Nutrition.
1, Acquisition of food; 2, Digestion of Food; 3, Assimilation of Food: 4, Growth; 5, Development; 6, Repair of Waste; 7, Production of Organic Material; 8, Conditions of Nutritive Activity; 9, Longevity, Vitality.
.14 Secretion and Excretion.
1, Mucous and Sebaceous; 2, Sericeous; 3, Digestive, salivary, gastric, pancreatic; 4, Odoriferous, sweet, etc.; 5, Poisonous, gall-formation, caprification; 6, Mammary, spermatic; 7, Lachrymal; 8, Biliary; 9, Urinary and Fecal.
.15. Variation. See also 575.2, Evolution.
1, Polymorphic; 2, Geographic; 3, Heterophagic; 4, Polygoneutic; 5, Mimetic; 6, Sexual; 7. Colorational; 8, Hybrids; 9, Monstrosities.
.16 Generation.
1. Abiogenesis; 2, Parthenogenesis, neuters; 3, Metagenesis, pædogenesis. nurses; 5, Fission and Gemmation; 6, Fecundation; 7, Hermaphrodites; 8, Vivipara; 9, Superfœtation.
.17 Histogenesis.
1, Development of Sperm-cells; 2, Development of Germ-cells, micropyle. 9, Reparation of Wounds.
.18 Nervous Functions and Sensation.
.19 Physiological chemistry.
.2 **Pathology.**
.3 **Embryology.**
.33, Development of Embryo; .34, Metamorphosis, larva, pupa, moulting; .35, Hypermetamorphosis; .36, Production of Sexes. See also 575.9, Origin of sexes.
.4 **Morphology. Comparative Anatomy.**
.41 Circulatory Organs.
.42 Respiratory Organs.
.43 Nutritory Organs.
.44 Secretory and Excretory Organs.
.45
.46 Generatory Organs.
.47 Motory Organs.
.48 Nervous System.
.49 Integument. Dermoskeleton. Skeleton.
.5 **Habits and Behavior.**
.51 Instinct. Reason.
.52 Abode. Migration.
.53 Food.
.54 Seasons. Hibernation.
.55 Sociability.
.56 Philoprogenitiveness. Breeding.
.57 Means of Protection. Fascination.
.58
.59 Other Habits.

591.6 **Economic.**
.61 Usefulness.
.62 In Nature.
.63 As Food and Medicine for Man.
.64 In Chemistry and Manufactures.
.65 Noxiousness.
.66 Offensive Animals.
.67 Animals causing Diseases.
.68 Injuring Vegetable and Animal Products and Inorganic Substances
.69 Injuring Living Plants and Animals. Parasites.
.7 **Organography. Descriptive Anatomy.**
Subdivided like 591.4, Morphology.
.8 **Histology.** See also 578.9, Microscopical zoölogy.
.9 **Geographical Distribution of Animals.**
Subdivided like 930–999, using .92 for ocean.

592 Invertebrates.

593 Protozoans. Radiates.

.1 **Protozoans.**
.11 Rhizopoda.
.12 Foraminifera.
.13 Heliozoa.
.14 Radiolaria. Polycystina.
.15 Infusoria.
.16 Flagellata.
.17 Ciliata.
.18
.19 Gregarinidæ.
.2 **Radiates.**
.3 **Cœlenterata.** Acalepha (old use of term, now limited to 593.73).
.4 **Sponges. Porifera. Spongia.**
.5 **Cnidaria.**
.6 **Actinozoa. Polyps. Corals and Sea Anemones.**
.61 Rugosa. Tetracorolla.
.62 Alcyonaria. Octocorolla.
.63 Zoantharia. Hexacorolla.
.64 Antipatharia.
.65 Actinaria.
.66 Madreporaria.
.7 **Hydrozoa.**
.71 Hydromedusæ.
.72 Siphonophora.
.73 Acalepha.
.74 Calycozoa.
.76 Marsupialida.
.77 Discophora. Jelly Fish.
.8 **Ctenophora. Jelly Fish.**

593.9 **Echinodermata.**
.91 Crinoidea. Sea Lilies.
.92 Asteroidea. Star Fish.
.93 Stelleridea.
.94 Ophiuridea.
.95 Echinoidea. Sea Urchins.
.96 Holothuroidea. Sea Cucumbers.
.97 Pedata.
.98 Apoda.
.99 Enteropneusta.

594 Mollusks.

.1 **Lamellibranchiata. Bivalves.**
.2 **Scaphopoda.**
.3 **Gastropoda. Univalves. Snails. Slugs.** See also 632, Pests.
.4 **Pteropoda. Winged Shells.**
.5 **Cephalopoda. Squids and Cuttle Fish.**
.6 **Molluscoidea.**
.7 **Bryozoa. (Polyzoa.) Sea Mats.**
.8 **Brachiopoda. Lamp Shells.**
.9 **Tunicata. (Ascidia.) Sea Grapes.**

595 Articulates.

.1 **Worms. Vermes.** See also 632, Pests.
.2 **Arthropoda.**
.3 **Crustacea.**
.31 Entomostraca. Cyclops, Shrimps, etc.
.32 Phyllopoda.
.33 Ostracoda.
.34 Copepoda.
.35 Cirripedia. Barnacles, etc.
.36 Malacostraca. Sandbugs, Crabs, Lobsters, etc.
.37 Arthrostraca.
.38 Thoracostraca.
.39 Gigantostraca. Trilobites.
.4 **Arachnida. Spiders. Scorpions. Mites.** See also 632, Pests.
.5 **Onychophora.**
.6 **Myriopoda. Centipedes, etc.** See also 632, Pests.
.7 **Insects. Insecta. Hexapoda.** See also 632, Pests.
.71 Thysanura. Bristle-tails, spring-tails, etc.
.72 Orthoptera. Grasshoppers, etc.
.73 Pseudoneuroptera. Dragon-flies, white ants, etc.
.74 Neuroptera. Caddice flies, etc.
.75 Rhynchota. (Hemiptera.) Bugs, etc.
.76 Coleoptera. Beetles.
.77 Diptera. Flies, etc.
.78 Lepidoptera. Butterflies, Moths.
.79 Hymenoptera. Bees, Wasps, etc.

596 Vertebrates.

597 Fishes. Pisces.

.1 Pharyngobranchii. Lancelet.
.2 Marsipobranchii. Lampreys.
.3 Elasmobranchii. Sharks, Rays, etc.
.4 Ganoidei. Sturgeons, Garpikes, etc.
.5 Teleostei. True bony fishes.
.6 Batrachia. (Amphibia.)
.7 Ophiomorpha.
.8 Anura. Toads, Frogs.
.9 Urodela. Salamanders.

598 Reptiles. Birds.

.1 Reptiles.
.11 Lacertilia. Lizards.
.12 Ophidia. Snakes.
.13 Chelonia. Turtles.
.14 Crocodilia. Crocodiles.
.15 Ichthyopterygia.
.16 Sauropterygia.
.17 Anomodontia.
.18 Pterosauria.
.19 Dinosauria.
.2 Birds. Aves.
.3 Grallatores. (Waders.)
.4 Natatores. (Swimmers.)
.5 Cursores. (Runners.)
.6 Rasores. (Scratchers.)
.7 Scansores. (Climbers.)
.8 Insessores. (Perchers.)
.9 Raptores. (Birds of Prey.)

599 Mammals. Mammalia.

.1 Monotremata. Duck-billed Platypus.
.2 Marsupialia. Kangaroos, Opossums.
.3 Edentata. Rodentia. Insectivora. Sloths. Rodents. Moles.
.4 Cheiroptera. Bats.
.5 Cetacea. Sirenia. Whales, etc.
.6 Proboscidea. Hyracoidea. Elephants. Hyrax.
.7 Ungulata. Carnivora. Domestic Mammals. See also 636.
.8 Quadrumana. Apes.
.9 Bimana. Man. See also 573, Nat. hist. of man; 610, Medicine.

Useful Arts

600 Useful Arts.

601 Philosophy. Theories, etc.

602 Compends. Outlines.

603 Dictionaries. Cyclopedias.

604 Essays. Lectures. Addresses.

605 Periodicals. Magazines. Reviews.

606 Societies. Fairs. Exhibitions.
Special exhibitions go with their topics. This is general only.

607 Education. Schools of Technology.
Divided like 940–99.

608 Patents. Inventions.

609 History of Useful Arts in General.
For its History, see each special department.

610 Medicin

610.1 Philosofy, theories .2 Compends .3 Dictionaries, cyclopedias .4 Essays .5 Periodicals .6 Societies .7 Study and teaching .71 Medical schools; divided like 940–999 .72 Medical education of women .73 Training schools for nurses .77 Medical museums .8 Collections .9 History of medicin

611 Anatomy

See also 591.4 Comparativ anatomy; 591.8 Zoologic histology

SUMMARY

611.01 Theory
.012 Teratology
.013 Embryology
.014 Anthropologic anatomy
.016 Paleontologic "
.018 Histology
.1 Circulatory system
.2 Respiratory "
.3 Digestiv "
.4 Glandular and lymphatic system
.6 Genito-urinary system
.7 Motor and integumentary system
.8 Nervous system
.9 Regional anatomy

.01 **Theory**
.0111 Notion, definition, value
.0112 Classification, division
.0114 Terminology

.012 **Teratology Anomalies**
To be subdivided like revised 617.3 Orthopedic surgery

.013 **Ontogeny Embryology**
See also physiology, 612.6 Reproduction and development

1 Germinativ cells
11 **Sperm**
12 Spermatogenesis See also 611.63 Male genital organs
15 **Ovum**
16 Ovogenesis See also 611.65 Female genital organs
17 Maturation Corpus luteum
2 Copulation Fecundation Fertilization
See also Fecundation, in botany 581.166; in zoology 591.3
3 Germ layers
31 **Segmentation Cleavage Blastula**
314 Blastula
32 **Gastrula**
33 **Primitiv streak**
34 **Blastopore** Primitiv mouth
35 **Archenteron** Primitiv gut
36 **Neurenteric canal**
37 **Entoderm, entoblast, hypoblast or endoderm**
38 **Ectoderm, epiblast or ectoblast**
39 **Mesoderm or mesoblast**
395 Mesenchyme
4 Entodermic, entoblastic or hypoblastic organs
41 **Notochord**
5 Ectodermic, epiblastic or ectoblastic organs
Epidermal layer
51 **Neural furrows, folds and canal or medullary plates**
See also 611.8 Nervous system

611.013 6 Mesodermic organs
61 **Protovertebrae Mesoblastic somites, or primitiv vertebrae**
64 **Somatopleure, body wall, or musculo cutaneous plate**
Outer lamella of lateral plates
65 **Splanchnopleure, fibrous wall of alimentary canal, or gut fiber plate**
Inner lamella of lateral plates
66 **Coelom, pleuroperitoneal or body cavity**
See also 611.389 Coelom
68 **Blood or primitiv vessel wall**
See also 611.0185 Histology of blood
7 External form of embryo
8 Fetal appendages
81 **Vitellin sac**
82 **Allantois**
83 **Amnion**
835 Amniotic fluid
84 **Chorion**
85 **Placenta** Umbilic cord
9 Experimental embryology

.014 **Anthropologic anatomy**
See also 572 Anthropology

.016 **Paleontologic anatomy**
See also 560 Paleontology

.018 **Histology**
Microscopic structure of organs
1 Cells Cytology
See also 576.3 Cytology For special cells see tissues to which they belong
11 **Protoplasm**
13 **Nucleus**
15 **Cell division** See also 611.01331
16 **Centrosome**
18 **Cilia Cellular membrane**
2 Connectiv tissue
Connectiv, cartilage and bone tissue together known as 'supporting tissues'
21 **Connectiv tissue cells**
22 **Connectiv tissue fibers**
23 **Ground substance or matrix**
24 **Reticular and adenoid tissue**
Areolar or interstitial tissue Reticulum
25 **Mucous or gelatinous tissue Mesenchyme**
See also embryology, 611.013395 Mesenchyme
26 **Adipose or fat tissue**
27 **Elastic or yellow fibrous tissue**
28 **Fibrous or white fibrous tissue**
29 **Pigment and pigment cells**
3 Cartilaginous tissue
True or hyalin cartilage, cartilage cells or chrondroblasts For Elastic, yellow fibrocartilage, or reticular cartilage see 611.01827; for Fibrocartilage, fibrous or white fibrocartilage see 611.01828
34 Perichondrium

611.018 4 Bone or osseous tissue
41 **Bone cells**
Osteoblasts Osteoclasts Howship's lacunae Myeloplaques of Robin
43 **Ground substance or matrix**
Spongiosum, spongy substance, or canceliated or spongy bone
Compact substance
Structure: lacunae, canaliculi, lamellae, Haversian canals, Volkmann's canals
44 **Periosteum**
Osteogenetic layer or cells; fibers of Sharpey
46 **Bone marrow or medulla**
5 Blood
See also physiology, 612.11 Blood
For sperm, see 611.01311 and 612.616
57 **Lymph**
See also 612.42 Lymphatic system
6 Muscular tissue Sarcoplasm
61 **Smooth, unstriped, unstriated or involuntary muscle**
62 **Striped, striated or voluntary muscle**
Sarcolemma
63 **Cardiac muscle**
64 Histology of muscular contraction
7 Epithelial tissue
72 **Glandular system**
73 **Mucous membranes**
74 **Serous " Endothelia**
8 Nervous tissue
81 **General structure Tectology Neurone Regeneration**
82 **Nerv cells**
Protoplasm: Nissl's bodies; reticular, fibrillar, and canalicular structures; pigment. Nucleus. Centrosome. Cell membrane and division
83 **Prolongations and nerv fibers**
Cylinder-axis process; cylinder axis. Appendixes, varicosities
833 Neurilemma Schwann's sheath
834 Myelin Ranvier's nodes Medullary sheath
835 Adventitious sheath, perineurium Epineurium Endoneurium
837 Dendrites
84 **Neuroglia** Ependymal cells, amyloids
86 **Terminations**
861 Motor terminations
866 Sensory "
.019 **Comparison with anatomy of lower animals**
Usually better clast in 591.4

Form divisions

.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs

611.07 Teaching Methods
.072 Laboratories Dissection
.077 Pedagogic methods
.078 Instruments Apparatus
.08 Polygrafy
.09 History
.1 **Circulatory system**
.11 Pericardium
.12 Hart
.122 Left hart
.123 Right hart
.124 **Ventricles**
2 Right 5 Left
.125 **Auricles**
2 Right 5 Left
.126 **Endocardium**
3 **Valvs**
4 Auriculoventricular valvs
42 Mitral or bicuspid valvs
46 Tricuspid valvs
5 Valvs of aorta and of pulmonary artery
Sinuses of Valsalva
52 Aortic valvs
56 Pulmonary or semilunar valvs
6 Valvs of right auricle
2 Eustachian 5 Coronary
.127 **Myocardium**
.13 Arteries
.131 **Pulmonary artery**
2 Right branch 5 Left branch
.132 **Aorta**
1 Aortic arch Ascending aorta
2 Coronary arteries
2 Right 5 Left
5 Innominate artery
.133 **Carotid arteries**
1 Common carotid
2 External "
21 Superior thyroid
22 Lingual
23 Facial, or external maxillary
24 Ascending pharyngeal
25 Posterior auricular
26 Occipital
27 Superficial temporal
28 Internal maxillary
281 Sphenopalatin arteries
289 Middle or great meningeal
3 Internal carotid
32 **Ophthalmic artery**
33 **Cerebral arteries, anterior and middle**
For posterior cerebral artery see 611.1349

611.134 **Subclavian arteries**
1 Axillary
Superior thoracic, acromiothoracic, long thoracic or external mammary, alar thoracic, subscapular, posterior and anterior circumflex
2 Brachial or humeral
Superior and inferior profunda, nutrient, anastomotica magna, muscular
3 Forearm arteries
31 Radial
35 Ulnar
4 Hand arteries
5 Internal mammary Superior epigastric
6 Costocervical trunk
7 Thyrocervical trunk
8 Posterior, or dorsal scapular, transversa colli
9 Vertebral Basilar, posterior cerebral, circle of Willis
.135 **Thoracic aorta and branches**
1 Parietal branches
4 Intercostal "
Subcostal, diaframatic, vas aberrans
5 Visceral branches
Bronchial, esophageal, pericardial, mediastinal
.136 **Abdominal aorta and branches**
1 Inferior phrenic
2 Lumbar
3 Middle sacral; caudal
4 Celiac axis
Celiac mesenteric, umbilic mesenteric or omphalomesenterica
41 Hepatic
Pyloric, gastroduodenal, superior pancreaticoduodenal, right gastro-epiploic, cystic
42 Splenic, lienalis
Pancreatic, vasa brevia, left gastro-epiploic
43 Left gastric, gastric, or coronary gastric
5 Mesenteric
51 Superior mesenteric
Rami intestini tenuis, or branches of small intestin; inferior pancreaticoduodenal; middle, right and ileocolic; terminal and appendicular branches
52 Inferior mesenteric
Left colic, sigmoid, superior hemorrhoidal
6 Middle suprarenal
7 Renal
8 Spermatic
9 Ovarian
.137 **Iliac arteries**
1 Common iliac
2 Hypogastric, or internal iliac
3 Parietal branches
4 Lateral sacral
5 Obturator

611.137 6 Gluteal
61 Superior gluteal
65 Inferior gluteal Sciatic
7 Visceral branches
71 Umbilic, superior vesical
72 Inferior vesical and deferential
73 Uterin and vaginal
74 Middle hemorrhoidal
75 Internal pudic
8 External iliac artery
81 **Inferior epigastric, or deep epigastric**
82 **Deep circumflex iliac**
83 **Femoral**
84 **Deep femoral, profunda femoris**
2 External circumflex 5 Internal circumflex
85 **Arteria genu suprema, or anastomotica magna**
86 **Popliteal**
87 **Anterior tibial**
9 Tibiofibular trunk, truncus tibioperoneus
91 **Posterior tibial**
92 **Peroneal**
93 **Arteries of foot**
94 Dorsalis pedis
Tarsal, metatarsal, dorsal interosseous, dorsalis hallucis
95 Plantar
.14 Veins
.141 **Pulmonary**
.142 **Cardiac or venae cordis**
.143 **Subintestinal, or fetal portal vein**
.144 **Cardinal**
.145 **Superior vena cava**
Innominate veins Veins of neck
1 Internal jugular vein
Thyroid veins
11 **Cerebral veins Sinuses of dura mater**
13 Emissary vein
15 **Superior ophthalmic**
16 **Inferior "**
17 **Facial**
2 External jugular
3 Posterior external jugular and vertebral
4 Subclavian and axillary
41 **Deep veins of upper extremity**
46 **Superficial veins of upper extremity**
2 Basilic 5 Cephalic
6 Azygos
7 Spinal veins

611.146 **Inferior vena cava**
1 Lumbar veins
2 Renal "
3 Suprarenal "
4 Hepatic "
5 Inferior phrenic
6 Spermatic
Pampiniform or spermatic plexus
7 Ovarian
.147 **Iliac veins**
1 Hypogastric or internal iliac
Hemorrhoidal plexus
2 External iliac
3 Femoral Popliteal
33 Long, or internal saphenous
37 Tibial veins
38 Short, or external saphenous
39 Veins of foot
.149 **Portal vein**
1 Superior mesenteric
2 Inferior "
3 Ventricular coronary, gastric, or venae gastricae Pyloric
4 Splenic, or lienalis
5 Cystic
7 Fetal hepatic veins Omphalomesenteric
Ductus venosus Aranzii, or sinus venosus, large vein passing directly thru fetal liver
8 Umbilic
.15 Capillaries
.2 **Respiratory system**
.21 Nose
See also 611.86 Organs of smell
.211 **External nose**
.22 Larynx
.221 **Cartilages**
Epiglottis, thyroid, arytenoid, cuneiform, cornicular
.223 False vocal cords
.224 Ventricles
.225 **Cavity of larynx** **Glottis**
True vocal cords Rima glottidis or chink of glottis
.227 Ligaments
.229 **Muscles of larynx**
.23 Trachea and bronchi
.231 **Trachea**
.233 **Bronchi**
See also 611.24 below
.24 Lungs, or pulmones
.25 Pleura
.26 Diafram
.27 Mediastinum
.28 Gills
See comparativ anatomy, 591.42 Respiratory organs
.29 Other organs, including air bladder swimming bladder
See 591.42

611.3 **Digestiv system**
.31 Mouth, buccal cavity or cavum oris
.313 **Tung**
5 Papillae
.314 **Teeth**
.315 **Palate, palatum, or roof of mouth** **Soft palate, or velum pendulum palati** **Uvula**
.316 **Salivary and other glands of mouth**
1 Submaxillary and sublingual glands
5 Parotid glands Stenson's duct
.317 **Lips**
.318 **Cheeks**
.32 Pharynx Esophagus
.321 **Pharynx**
.322 **Tonsils**
.323 Faucial tonsils
.324 Pharyngeal or Luschka's tonsils
.325 Lingual, buccal or 4th tonsil
.326 Other tonsils: laryngeal, nasal
.327 **Topografy or regions of pharynx**
1 Nasal or epipharynx
2 Oral, buccal, or meso pharynx
3 Laryngeal or hypo pharynx
4 Back
5 Sides
.329 **Esophagus**
1 Cervical 2 Thoracic section 3 Abdominal section, including diaframatic
.33 Stomach
Gastric glands: true, oxyntic or peptic; pyloric; cardiac
.333 Cardia
.334 Pylorus
.335 Greater curvature, or lower convex surface
.336 Lesser " " upper concave "
.34 Intestin
.341 **Small intestin**
2 Meckel's diverticulum
3 Peyer's patches, or tonsillae intestinales
4 Plicae circulares
5 Glands of Lieberkühn and solitary glands
.342 Duodenum Brünner's glands
.343 Jejunum
.344 Ileum
.345 **Cecum**
1 Ileocecal valv
2 Vermiform appendix
.347 **Large intestin**
Including cecum Appendices epiplöicae
.348 Colon
2 Ascending
3 Transverse
4 Descending
.349 Sigmoid flexure
.35 Rectum Anus
.351 Rectum Houston's or rectal valvs
.352 Anus
.353 Perineum See also 611.96

611.36 Liver
.361 **Bile ducts** **Bile capillaries or canaliculi**
.362 Hepatic duct
.366 Cystic duct Gall bladder
.367 Common bile duct, or ductus communis choledicus
Process and ampulla of Vater
.37 Pancreas
.373 Pancreatic duct, or canal of Wirsung
.375 Duct of Santorini
.376 Glandular portion
.377 Interalveolar cell-ilets, intertubular cell masses, ilands of Langerhans
.38 Peritoneum Mesentery Omentum Coelom
.381 **Peritoneum**
2 Parietal 5 Visceral
.382 Omentum, epiploon
Lesser or gastrohepatic, great or gastrocolic, gastrosplenic
.383 Mesentery
Transverse and sigmoid mesocolon; mesorectum; mesoappendix
.384 Retroperitoneal fossae
.389 Coelom or pleuroperitoneal cavity
.39 Adipose bodies
.4 **Glandular and lymphatic system**
Put glands of any special system with that system. See 611.36, Liver; 611.61, Kidneys; 611.316, Salivary glands; 611.69, Mammary glands. But class here chromaffin tissue in general
.41 Spleen
.415 Malpighian bodies
.418 Capsule of spleen
.42 Lymphatic vessels or lymphatics and capillaries
For lymphatics of an organ or tissue, see name of organ or tissue
Lymphatic spaces
.421 **Lymphatics by region**
1 Hed
2 Face
3 Neck
4 Thorax
5 Abdomen
6 Pelvic region
7 Upper extremity
2 Arm 4 Forearm 6 Hand
8 Lower extremity
2 Thigh 4 Leg 6 Foot
9 Tail
.423 Receptaculum chyli or cistern of Pecquet
.424 **Thoracic duct (left)**
.425 **Right lymphatic duct**
.426 Lacteals
5 Villi
.43 Thymus
.435 Accessory thymus
.44 Thyroid gland
.445 Accessory or aberrent thyroids
.447 Parathyroids
.45 Suprarenal capsules or bodies
Accessory suprarenal capsules

611.46 Lymphatic glands
.461 Glands of hed
.462 " " face
Internal maxillary Submental
.463 Glands of neck
1 Suboccipital or occipital
2 Mastoid, retroauricular or postauricular
6 Retropharyngeal
7 Cervical or jugular
8 Subclavian
.464 **Glands of thorax**
1 Diaframatic
2 Mammary lymph
3 Intercostal
4 Mediastinal
465 **Abdominal lymph glands**
1 Iliac and hypogastric: sacral, lumbar
2 Abdomino-aortic
21 Juxta-aortic
22 Preaortic: gastric, splenic, hepatic
23 Retroaortic
4 Glands of small intestin: mesenteric
6 Glands of large intestin: colic, rectal
.467 **Lymph glands of upper extremity**
1 Axillary
2 Epitrochleal or supratrochleal and other glands
5 Pectoral
.468 **Lymph glands of lower extremity**
1 Inguinal
2 Femoral
3 Popliteal
4 Anterior tibial
.47 Carotid gland or body
.48 Coccygeal gland
.6 **Genito-urinary system** **Brests**
.61 Kidneys
Class here urinary organs in general
.615 Uriniferous tubules
.617 **Ureter**
.618 Pronephros
.619 Mesonephros
.62 Bladder Urethra
.621 **Bladder**
3 Urethral openings
.622 **Ligaments: urachus**
For pedicle of allantois see also embryology, 611.01382
.623 **Urethra**
For female urethra see 611.674
1 Prostatic part
Verumontanum or caput gallinaginis
Sinus pocularis or uterus masculinus
2 Membranous part
3 Spongy, cavernous or penial part
4 Lacunae Littré's glands
.627 Bulbo-urethral or Cowper's glands
.629 Urogenital sinus

611.63 Male genital organs
.631 Testicles or testes
1 Seminiferous tubules
Straight tubules, tubuli recti or vasa recta; coni vasculosi or vasa efferentia
3 Tunics of testes: vaginalis, albuginea, vasculosa
5 Mediastinum testis or Highmore's body; rete testis of Haller or Haller's network
.632 Epididymis
.633 Appendixes of testes
Vasa aberrantia; hydatids of Morgagni, or pedunculated bodies; paradidymis or organ of Giraldès
.634 Vas deferens
.635 Ejaculatory ducts
.636 Seminal vesicles
.637 Prostate
.638 Scrotum
4 Dartos
.639 Spermatic cord
Infundibula; intercolumnar or spermatic and cremasteric fascia

.64 Penis
.641 Root
.642 Body Prepuce
.643 Glans penis, or acorn
.644 Meatus
.645 Corpora cavernosa
.646 Corpus spongiosum
.647 Bulb of urethra

.65 Female genital organs Adnexa
.651 Ovaries
1 Medullary substance Stroma
2 Graafian follicles
Capsule of ovum, membrana granulosa, discus proligerus
3 Cortical layer
.652 Corpus luteum or corpora lutea
See also embryology 611.01317
.656 Fallopian tubes

.66 Uterus
.662 Endometrium
.664 Cornua
.665 Body or parenchyma
.666 Neck, cervix
.667 Ligaments
For placenta see embryology, 611.01385 and gynecology 618.36
2 Broad or lateral
3 Round Canal of Nuck
4 Uterosacral and uterolumbar Pouch of Douglas
Posterior ligaments
6 Epoophoron, parovarium, or organ of Rosenmüller Gärtner's duct
7 Paroophoron
.669 Müller's duct Oviducts of lower vertebrates
Class oviducts of lower vertebrates in 591.46 except in comparison with human organs

.67 Vagina Vulva
.671 Vagina
.672 Hymen Vestibulum
.673 Vulva
1 Mons veneris 2 Labia majora 3 Labia minora
.674 Female urethra
.675 Clitoris Bulbus vestibuli
.677 Bartholini's, or vulvo-vaginal glands

.69 Brests
.691 Nipple and areola Glands of Montgomery
.692 Acini, acinous glands
.693 Galactophorous or lactiferous ducts

611.7 Motor and integumentary systems
.71 Osteology Bones Skeleton
.711 Spinal colum
1 Cervical vertebrae
2 Atlas
3 Axis or epistropheus
5 Thoracic or dorsal vertebrae
6 Lumbar vertebrae
7 Sacrum or sacral vertebrae
8 Coccyx
.712 Ribs Thorax
5 Costal cartilages
.713 Sternum or brest bone
Menubrium; gladiolus; zyphoid or ensiform
.714 Bones of hed Skull
For nasal cavity, inferior concha, see 611.2161
1 Calvaria or cerebral cranium
Sutures, fontanelles, supernumerary or Wormian bones
3 Base of cranium
6 Orbits
7 Nasal cavity Inferior conchae
.715 Cranium, cranial bones
1 Occipital
2 Sphenoid
3 Temporal
4 Parietal
5 Frontal
6 Ethmoid
7 Lacrimal
8 Nasal
9 Vomer
.716 Bones of face or visceral cranium
1 Maxillary, upper jaw or superior maxillary
2 Palate
3 Malar or zygomatic
4 Mandible, lower jaw or inferior maxillary
41 Alveolar limbus
43 Ramus of mandible
5 Hyoid
6 Skeleton branchiae Better clast in 591.4
.717 Bones of upper extremity
1 Scapula, shoulder blade
Shoulder girdle as a whole Acromion
2 Clavicle or collar bone
3 Coracoid process
4 Humerus
5 Radius
6 Ulna
7 Carpus, carpal bones or wrist bones
71 Scaphoid or navicular
72 Semilunar, or os lunatum
73 Cuneiform, or os triquetrum
74 Pisiform
75 Trapezium, or os multangulum majus
76 Trapezoid or " " minus
77 Os magnum, or os capitatum
78 Unciform or hook or os hamatum
79 Central
8 Metacarpus, metacarpal bones
9 Phalanges of hand
91 Basilar or proximal phalanges
93 Middle phalanges
95 Ungual or distal phalanges
99 Sesamoid

611.718 **Bones of lower extremity**
For pelvis see 611.96
1 Hip bone, or os coxae or innominatum
Acetabulum or cotyloid cavity
11 Ilium
12 Ischium
13 Pubis
4 Femur
45 Patella See also 611.7283 Knee joint and 611.983 Knee
5 Tibia
6 Fibula
7 Tarsus
71 Astragalus, ankle bone, or talus
73 Calcaneum, heel, or os calcis
75 Cuboid
76 Scaphoid or navicular
78 Cuneiform or wedge bones
Internal or first, middle or second, external or third cuneiform
8 Metatarsal bones
9 Phalanges of foot
91 Basilar or proximal phalanges
93 Middle or second "
95 Ungual or third "
99 Sesamoid bones

.72 Ligaments Joints

.721 **Articulations of vertebrae and of cranium**
1 Occipito-atlantal and occipito-axial
3 Intervertebral articulations
5 Atlanto-axial or atlo-axoid and atlanto-odontoid
6 Lumbo-sacral
7 Sacro-coccygeal
8 Coccygeal

.722 **Costovertebral articulations**

.723 **Costosternal, costochondral, chondrosternal, interchondral, intersternal**

.724 **Jaw joint, temporomandibular, temporomaxillary or mandible joint**

.727 **Articulations of upper extremity**
1 Sternoclavicular joint and costoclavicular or rhomboid ligament
2 Articulations of shoulder
21 Shoulder joint
24 Acromioclavicular or scapuloclavicular joint Coracoclavicular and coracoacromial ligaments
3 Elbow joint
31 Humeroulnar joint
33 Humeroradial joint
34 Superior radioulnar or radioulnaris proximalis
4 Wrist joint
41 Inferior or distal radioulnar joint
44 Radiocarpal
5 Intercarpal articulation
54 Middle carpal joints
6 Carpometacarpal articulations
7 Intermetacarpal "
8 Metacarpophalangeal "
9 Phalangeal or finger joints

611.728 **Articulations of lower extremity**
1 Articulations of pelvis
Sacroiliac and pubic, or symphysis ossium pubis; sacrosciatic ligament or symphysis sacrococcygea
2 Hip joint, or articulo coxae
Iliofemoral, Y or Bigelow's ligament; ligamentum teres
3 Knee joint
31 Crucial or femorotibial ligaments
33 Semilunar fibrocartilages
34 Anterior or ligamentum patellae
38 Tibiofibular ligaments
4 Ankle joint
41 Inferior tibiofibular joint
44 Tibiotarsal ligaments
5 Intertarsal ligaments
51 Astragalocalcaneal, calcaneoastragaloid or talocalcaneum; astragaloscaphoid; calcaneoscaphoid or calcaneonavicular ligaments
53 Calcaneocuboid ligaments
54 Mediotarsal articulations
55 Cuboidcuneiform "
56 Scaphoidcuboid or cubonavicularis, scaphoidcuneiform or cuneonavicularis articulations
58 Intercuneiform articulations
6 Tarsometatarsal articulations
7 Intermetatarsal "
8 Metatarsophalangeal "
9 Toe joints

.729 **Classes of joints**
2 Synarthrosis or fixt joint
4 Amphiarthrosis or mixt joint
6 Diarthrosis or movable joint
61 Arthrodia or gliding joint
62 Condylarthrosis or knuckle joint
63 Enarthrosis or ball and socket joint
64 Ginglymus or hinge joint
65 Trochoid or pivot joint

.73 Muscular system Myology

.731 **Dorsal muscles**
1 Spinohumeral or humerospinal muscles
11 Trapezius
12 Latissimus dorsi
13 Rhomboid
14 Levator scapulae
2 Spinocostal or serrati posteriores
3 Spinodorsal
Sacrospinalis, lumbosacral, erector spinae, transversalis cervicis
31 Iliocostal
36 Longissimus dorsi
4 Splenius and complexus
5 Spinalis dorsi
6 Transversospinales
61 Semispinalis
65 Multifidus
68 Rotatores
7 Breves spinae
71 Interspinales
76 Intertransversarii
8 Oblique muscles of hed
9 Recti capitis posterior and lateralis

611.732 **Muscles of hed**

See also 611.7318–9 and 611.7337–8

1 Platysma myoides

2 Occipitofrontalis or epicranial

3 Muscles of nose

Pyramidalis nasi, compressor nasi, compressor narium minor, depressor alae nasi or myrtiform, dilatores nasi

4 Muscles of ear Attrahens, attollens, retrahens

5 Palpebral and orbital muscles of eye

Orbicularis palpebrarum, or sphincter of eyelids; corrugator supercilii; levator palpebrae; levator palpebrae superioris; tensor tarsi
See also 611.8461

6 Buccal muscles

Buccinator, orbicularis oris, levator anguli oris, levatores labii superioris, levator labii superioris alaeque nasi, zygomatic, levator labii inferioris, levator menti, depressor labii inferioris or quadratus menti; depressor angulae oris or triangularis menti; risorius, or Santorini's muscle

7 Muscles aiding mastication and deglutition

71 Masseter
72 Temporal
73 Pterygoid
75 Muscles of palate and pharynx
76 Palate
Levator palati, tensor palati, azygos uvulae, palatoglossus, palatopharyngeus, salpingopharyngeus
78 Pharynx
Inferior, superior and middle constrictors, stylopharyngeus

·733 **Muscles of neck**

1 Sterno-cleido-mastoid
2 " hyoid
3 Omohyoid
4 Sternothyroid
5 Thyrohyoid
6 Longus colli
7 Rectus capitis anticus major, or longus capitis
8 Rectus capitis anticus minor, or rectus capitis anterior
For rectus capitis lateralis see 611.7319
9 Scaleni: anticus, medius and posticus

·734 **Hyoid muscles**

Depressors of lower jaw or elevators of hyoid. For tongue see 611.313

1 Digastric
4 Stylohyoid
6 Mylohyoid
8 Geniohyoid

·735 **Thoracic muscles**

1 Pectoralis major
2 " minor
3 Subclavius
4 Levatores costarum
5 Serratus magnus or serratus anterior
6 Intercostal
7 Subcostal
8 Transversus thoracis or triangularis sterni

·736 **Abdominal and coccygeal muscles**

1 Rectus abdominis
2 Pyramidalis abdominis
3 Oblique abdominal
6 Cremaster
7 Transversalis or transversus abdominis
8 Quadratus lumborum
9 Coccygeal

611.737 **Muscles of upper extremity**

1 Shoulder or axillary

11 Deltoid
12 Supraspinatus
13 Infraspinatus
14 Teres minor
15 Teres major
16 Subscapular

2 Arm

21 Biceps brachii, or biceps flexor cubiti
22 Coracobrachialis
23 Brachialis (anticus)
24 Triceps brachii, or triceps extensor cubiti
25 Anconeus

3 Forearm

4 Pronator muscles

41 Pronator radii teres
45 " quadratus

5 Flexors of forearm

51 Flexor carpi radialis
52 Palmaris longus
53 Flexor carpi ulnaris
54 " digitorum sublimis
55 " " profundus
56 " pollicis longus

6 Extensors and supinators

61 Brachioradialis
62 Extensor carpi radialis longus
63 " " " brevis
64 " " ulnaris
65 Extensors of fingers, or extensores digitorum
66 Supinator
67 Abductor pollicis longus
68 Short and long extensors of thum, or extensores pollicis brevis et longus
69 Extensor of index finger, or extensor indicis proprius

7 Muscles of hand

71 Lumbricales
72 Palmaris brevis
73 Short abductor of thum, or opponens pollicis
Short flexor of thum, or flexor brevis pollicis
Adductor pollicis
76 Muscles of little finger
Abductor digiti quinti (or minimi) brevis; opponens digiti quinti; short flexor of 5th or little finger, or flexor brevis digiti minimi
79 Interosseous muscles

·738 **Muscles of lower extremity**

1 Hip and nates

11 Iliopsoas
12 Iliacus
13 Psoas major and minor
14 Gluteal
15 Tensor fasciae latae, tensor fasciae femoris or tensor vaginae femoris
16 Piriformis
17 Obturator internus
18 Gemelli or gemini
19 Quadratus femoris

611.738 2 Thigh muscles
21 Sartorius
22 Quadriceps femoris or quadriceps extensor femoris
Rectus femoris, vastus externus, vastus internus and crureus or vastus intermedius
225 Articularis genu, or subcrureus
23 Pectineus
24 Adductors: longus, brevis, magnus and minimus
25 Gracilis
26 Obturator externus
27 Biceps femoris or biceps flexor cruris
28 Semitendinosus
29 Semimembranosus
3 Leg
4 Anterior muscles
41 Anterior tibial or tibialis anticus
42 Extensor digitorum longus
43 " hallucis " or proprius
46 Peronaeus tertius
5 Other muscles of leg
51 Peronaeus longus
52 " brevis
53 Gastrocnemius
54 Soleus, triceps surae
55 Plantaris
56 Popliteus
57 Posterior tibial
58 Flexor digitorum longus
59 " hallucis "
7 Muscles of foot
8 Back of foot
Extensor brevis digitorum
Sole of foot or plantar region
Adductor hallucis (obliquus and transversus), adductor digit minimi, abductor hallucis; flexor hallucis brevis, flexor digitorum brevis, flexor accessorius, flexor digiti minimi brevis, lumbricales, interosseous muscles
.739 Electric organs Better clast in comparativ anatomy
.74 Tendons Fasciae
May be divided like 611.73; e. g. Achilles tendon 611.74854
.75 Bursae Sheaths of tendons
.751 Hed
.752 Neck
.753 Back
.754 Shoulder
.757 Upper extremity
.758 Lower "
.76 Connectiv tissue See also 611.0182 Histology of connectiv tissue
.77 Skin Glands of skin
.771 Cuticle, scarf skin or epidermis
Horny and Malpighian layers
.772 Glands of skin
.773 Sebaceous
.774 Sudoriferous or swet
.775 Ciliary glands
.776 Circumanal "
.777 Ceruminous "
.778 Corium, cutis vera, true skin or dermis
Reticular and papillary layers
5 Pigmentation
.779 Subcutaneous areolar tissue, tela subcutanea or paniculus adiposus

611.78 Hair, nails, scales, fethers, etc.
For teeth see 611.314 Fur, scales, fethers, horns, etc. better clast in comparativ anatomy
.781 Hair
.785 Scales
.786 Nails
.787 Fethers
.788 Horns
.8 Nervous system Sense organs
.81 Encephalon Brain
Mesurement Weight
.811 General structure of brain and cerebrospinal axis
.812 Localizations
.813 Telencephalon, or endbrain Prosencephalon, or forebrain Hemispheres
Longitudinal and transverse fissure
1 Pallium, brain mantle or cerebral cortex
11 Frontal lobe
Broca's convolutions
12 Parietal lobe Central fissure, sulcus centralis, or Rolando's groove
Opercula insulae
13 Temporal or temporosphenoid lobe Fissure of Sylvius, or fissura cerebri lateralis
14 Limbic lobe Gyrus fornicatus
Hippocampal gyre, or gyrus hippocampi Callosal gyre Dentate gyre, or fascia dentata hippocampi Fasciola Fimbria, taenia fornicis or taenia hippocampi Hippocampus major or cornu ammonis Dentate fissure, hippocampal sulcus, or subiculum cornu ammonis Callosomarginal fissure Amygdala, almond nucleus, or amygdaloid tubercle
15 Occipital lobe
Occipital or parieto-occipital fissure
16 Paracentral gyre or lobule
17 Cuneus Calcarin fissure
18 Precuneus, or quadrate lobe
19 Insula, iland of Reil, central lobe, or gyri operti
2 Striatum, striate body, or corpus striatum
Basal ganglion of hemisphere
21 Caudatum, taild nucleus, or nucleus caudatus
22 Lenticula, lenticular nucleus, or nucleus lentiformis
Globus pallidus, or pallidum, and putamen
23 Claustrum
25 Tenia, taenia semicircularis, stria terminalis or corneae
3 Rhinencephalon or rhinencefal
Olfactory bulb tract, substantia perforata anterior, precribrum, etc Broca's area, or parolfactoria
7 Centrum ovale majus (of Vieussens) Centrum semiovale Internal capsule
8 Paraceles or lateral ventricles
9 Callosum or corpus callosum Fornix
Septum pellucidum or lucidum, or s ptum Cavum septi pellucidi, 5th ventricle or pseudocele

611.814 **Diencephalon, diencefal, thalamencephalon or interbrain**

1 Hypothalamus or subthalamic tegmental region
Nucleus of Luys or nucleus hypothalamicus
Postcommissure or posterior commissure

2 Corpora albicantia, albicans, or corpus mammillare
Bundle of Vicq-d'Azyr, or fasciculus thalamomammillaris

3 Hypophysis, hypophysis cerebri or pituitary body
Tuber or tuber cinereum Infundibulum

4 Optic tract Optic chiasm or commissure

5 Epithalamus Pinea, pineal body, conarium or epiphysis Habenula, habena, or pedunculus conarii

6 Geniculate bodies, or geniculum Metathalamus

7 Thalamus or optic thalamus
Thalamic radiation: ansa peduncularis, ansa lenticularis
For Nissl's bodies see 611.01882

8 Third ventricle, or diacele
Porta or foramen of Monro, or foramen interventriculare

.815 **Mesencephalon, midbrain or mesencefal**

3 Quadrigeminum, or corpora or tubercula quadrigemina Quadrigeminal arms

4 Pedunculi or crura cerebri, crura or crus

41 Substantia nigra (Sömmering) or intercalatum
See also nucleus of Luys 611.8141

42 Foot of peduncle, basis or pes pedunculi, or crusta

43 Tegmentum

44 Red nucleus, nucleus ruber, or rubrum

5 Nuclei of oculomoto and trochlear nervs

6 Aqueduct of Sylvius, aqueductus cerebri, or mesocele

.816 **Isthmus rhombencephali**

3 Valv of Vieussens, or superior medullary velum

4 Superior cerebellar peduncles
Prepeduncles, brachium conjunctivum cerebelli, or crura ad cerebrum

7 Lemniscus: mesial and lateral fillets

.817 **Metencephalon or epencephalon, epencefal or hindbrain Pons (Varolii)**

1 Cerebellum

11 Lobes, fissures, valv of Tarinus, velum medullare posterius, or kilos

13 Cerebellar centers of gray matter Nuclei olivaris superiores: roof nuclei, dentate nuclei, dentatum, etc.

15 White substance of cerebellum Arbor vitae

3 Pons Varolii Tegument For reticula see 611.8226

4 Nuclei of trigeminus system

41 Nucleus motorius or motor nucleus of 5th nerv

42 Nucleus of spinal tract or sensory nucleus of 5th nerv

5 Nucleus or nidus of abducent nerv

6 " " " " facial nerv

68 Salivary nucleus

7 Cochlear nidi or nucleus of cochlear nerv
Ventral root of 8th nerv

76 Trapezium or trapezoid body

77 Nucleus of superior olivary body

78 Acoustic striae, striae acusticae or medullares

8 Vestibular nidi or nucleus of vestibular nerv
Dorsal root of 8th nerv

611.818 **Myelencephalon, metencefal, medulla, bulb or afterbrain, postoblongata or medulla oblongata**

1 Pyramids Pyramidal decussation

2 Dorsal colum, posterior fibers, or funiculi dorsales
Arcuate fibers Restis or restiform body
Fasciculus of Rolando, cuneatus and gracilis

3 Lateral fibers Oliva or olivary bodies
Anterolateral ground bundle or fasciculus proprius anterolateralis; anterolateral cerebellar tract or fasciculus anterolateralis superficialis

4 Interolivary stratum, fillet or lemniscus

5 Fourth ventricle or metepicele
Metapore or foramen of Magendie Foramina of Luschka, Key and Retzius Obex Lingula Calamus scriptorius

6 Nucleus of glossopharyngeal system Solitary tract

7 Nuclei of vagus and accessory nervs

75 Ambiguous nucleus

78 Dorsal nucleus of vagus

9 Nucleus of hypoglossal system or hypoglossal nidus

.819 **Meninges and cerebral meninges**

1 Pia mater or pia

2 Telae choroideae, velum interpositum, choroid plexus

3 Arachnoid villi
Glandulae Pacchioni, Luschka's villi or granulations

4 Cisterns, or subarachnoid cisterns

5 Dura mater, or dura Tentorium and falx cerebelli
Falx cerebri

.82 Spinal cord, or myel

.821 **Enlargements or intumescentia; general structure**

2 Cervical cord or myel, pars cervicalis

3 Thoracic or dorsal cord or myel, pars thoracalis

4 Lumbar cord or myel, pars lumbaris

5 Sacral cord

6 Terminal cone, or conus (medullaris) Filum Cauda (equina)

8 Grooves and fissures, sulci and fissurae

.822 **Gray substance or matter, entocinerea or cinerea Gray cornua or colum**

1 Anterior or ventral colum or cornu or funiculus anterior

2 Posterior or dorsal " " "
Clarke's colum, nucleus dorsalis or Stilling's nuclei

4 Gelatinosa or gelatinous matter, substantia cinerea gelatinosa Substantia spongiosa

6 Reticula or formatio reticularis

.823

611.824 **White substance, or alba**

.825 Anterolateral colum

Anterior plus lateral colums

2 **Pyramidal tract or bundle or fasciculus cerebrospinalis**

Direct or uncrost tract, fasciculus cerebrospinalis anterior, or fasciculus

Crost pyramidal tract, or cerebrospinalis lateralis

3 Direct cerebellar tract, or dorsolateral cerebellar tract

4 Gower's tract, cerebellar path of anterior funiculus, or fasciculus anterolateralis superficialis ascendens or anterolateral ascending cerebellar tract

5 Fasciculus sulcomarginalis, or marginal tract of Spitzka and Lissauer

6 Lateral colum or anterolateral descending cerebellar tract or colum of Marchi and Lowenthal

7 Anterolateral ground bundle or fasciculus proprius anterolateralis

8 Anterior or ventral commissure

.826 Posterior or dorsal colums

1 Ascending fibers

Tracts of Burdach (posterolateral or cuneatus) and of Goll (posteromedian or gracilis) and fasciculus of Rolando

5 Descending fibers Comma tract in Burdach's colum

8 Radicular fibers

9 Posterior or dorsal commissure

.827 **Roots of nervs**

Works tracing nerv roots into spinal cord; for macroscopic studies on nerv roots see 611.832

1 Anterior or ventral roots

2 Posterior " dorsal "

.828 **Spinal canal** **Ependyma or endyma**

Rhomboidal sinus Reissner's fibers

.829 **Spinal membranes, or meninges spinales**

1 Spinal pia mater

3 " arachnoid

5 " dura mater

.83 Peripheral nervous system Nervs

.831 **Cranial nervs and ganglia**

1 **Olfactory, or 1st cranial**

2 **Optic, or 2d cranial**

3 **Motoroculi, 3d cranial or oculomoto**

4 **Trochlear, pathetic, or 4th cranial**

5 **Trifacial, trigeminus, or 5th cranial**

Large or great superficial petrosal branch

52 Ophthalmic nerv of Willis

54 Superior maxillary nerv or maxillary nerv

542 Infraorbital branch

56 Mandibular or inferior maxillary

6 **Abducent, external motoroculi, oculomoto, or 6th cranial**

7 **Facial, 7th cranial nerv, or portio dura**

73 Other collateral branches

74 Terminal branches

75 Pars intermedia of Wrisberg (nervus intermedius) Chorda tympani

8 **Auditory, acoustic or 8th nerv**

81 Cochlear nerv or path, or central auditory path

85 Vestibular path or nerv

9 **Glossopharyngeal or 9th nerv**

91 **Pneumogastric, vagus or 10th nerv**

911 Parietal branches: auricular and lateral nervs

914 Pharyngeal branches

915 Superior cardiac nervs

916 Superior laryngeal nerv

917 Inferior or recurrent laryngeal nerv

918 Pulmonary branches

919 Esophageal and gastric branches

92 **Spinal accessory or 11th nerv**

93 **Hypoglossal or 12th nerv**

611.832 **Spinal nervs**

Including in 5–6 macroscopic studies on nerv roots. See also 611.827

1 Dorsal or posterior branches

2 Ventral or anterior "

5 Dorsal or posterior roots See also 611.8272

6 Ventral or anterior " See also 611.8271

.833 **Cervical nervs**

1 **Dorsal or posterior branches of cervical nervs** **Small and large suboccipital nervs**

2 **Ventral anterior branches of cervical nervs**

3 **Cervical plexus**

32 Large auricular nerv

33 Cutaneous nerv of neck

34 Supraclavicular nervs

36 Phrenic or internal respiratory nerv

4 **Brachial plexus**

41 Supraclavicular part

47 Infraclavicular part

5 **Median nerv**

6 **Ulnar or cubital nerv**

7 **Radial nerv**

Musculo-spiral

8 **Musculocutaneous nerv**

9 **Antibrachii ulnaris**

Cutaneus brachii medialis, or nerv of Wrisberg

.834 **Thoracic nervs**

1 Posterior branches

2 Anterior " Intercostal nervs

.835 **Lumbar and sacral nervs**

1 **Posterior branches**

2 **Anterior "**

3 **Lumbosacral plexuses**

4 Lumbar plexus

41 Great iliohypogastric nerv

42 Ilioinguinal

43 Genitofemoral or genitocrural

44 Lateral or cutaneous nerv of thigh

5 Femoral nerv or anterior crural nerv (femoralis)

51 Middle cutaneous nerv

52 Internal " "

53 Muscular branches of posterior division of anterior crural nerv

54 Long or internal saphenous nerv

6 Obturator nerv

61 Accessory obturator, or accessory anterior crural nerv of Winslow

68 Lumbosacral cord

7 Sacral or sciatic plexus

71 Superior gluteal

72 Inferior "

73 Small sciatic nerv (cutaneus femoris posterior)

8 Great sciatic nerv or ischiadicus

81 External popliteal, or peronaeus communis or peroneal

82 Sural or lateral cutaneous branch, or cutaneus surae lateralis

84 Musculocutaneous or superficial peroneal

86 Anterior tibial nerv or deep peroneal

87 Internal popliteal or tibial

88 Sural or plantar nervs

9 Genital, pudic or pudendal plexus

93 Collateral branches

95 Pudic nerv

.836 **Coccygeal plexus** **Coccygeal nervs**

611.839 **Sympathetic system**
1 Cervical and cephalic part
11 Superior cervical ganglion
12 Internal carotid nerv and plexus
Cavernous plexus
13 External carotid nerv and plexus
14 Common " plexus Superior cardiac nerv
15 Middle " ganglion Middle " "
16 Inferior cervical "
17 " cardiac nerv Cardiac plexus
2 Thoracic part of gangliated cord
3 Abdominal and pelvic part of sympathetic system
31 **Solar or epigastric plexus or plexus coeliacus**
.84 Eye Organ of vision
See also 611.7146 Orbit, including capsule of Ténon
.841 **Fibrous coats or tunics of eye**
1 Conjunctiva
3 Cornea
5 Sclerotic coat or sclera
Canal of Schlemm Spaces of Fontana
.842 **Vascular coats of eye Uveal tract**
1 Iris Pupil
3 Choroid
Tapetum
5 Ciliary body, muscle and processes
.843 **Retina**
Optic disc; macula lutea For optic nerv see 611.8312
.844 **Refracting media**
1 Crystallin lens
2 Zonule of Zinn or zonula ciliaris
7 Vitreous humor Posterior chamber
Hyaloid membrane Hyaloid or Stilling's or Cloquet's cana
Canal of Petit
9 Aqueous humor Anterior chamber
.846 **Accessory organs of eye**
1 External muscles, musculi ocu
4 Tear apparatus
7 Lacrimal gland
8 " canals and puncta
9 " sac and nasal duct
.847 **Eyelids or palpebrae**
Canthi
5 Eyelashes or cilia
6 Eyebrows or supercilia
.85 Ear Organ of hearing
See also 611.8318 Auditory nerv
.851 **Internal ear**
.852 Membranous labyrinth
1 Cochlea, scala media, or ductus cochlearis
2 Organ of Corti, or Corti's fiber
4 Saccule
5 Utricle
6 Semicircular canals
.853 Osseous labyrinth
Vestibule, semicircular canals, cochlea, modiolus or columella

611.854 **Middle ear or tympanum**
Atrium or tympanic cavity proper
5 Attic
7 Mastoid cells
.855 Membrana tympani, or drumhed
.856 Eustachian tube or tuba auditiva
.857 Bones of ear
Malleus or hammer; incus or anvil; stapes or stirrup; muscles of tympanum, stapedius and tensor tympani
.858 **External ear**
Meatus, pinna
.86 Organs of smell; olfactory organs
.87 " " taste
.88 " " touch and senses in general
.889 Organa lateralia
.89 Ganglions
Class ganglions here if separately treated
.891 **Cranial ganglions**
5 Semilunar ganglion or Gasserian
52 Ciliary "
54 Sphenopalatin or Meckel's ganglion
56 Otic or Arnold's submaxillary ganglion
7 Geniculate ganglion
81 Spiral or Corti's ganglion
85 Vestibular ganglion
9 Petrosal and superior glossopharyngeal ganglion
91 Jugular and nodose ganglions
.892 Ganglions of spinal nervs
See also 611.832 Spinal nervs
.899 Sympathetic ganglions
For chromaffin tissue see 611.4
.9 **Regional anatomy**
.91 Hed
.92 **Face**
.93 Neck
.94 Thorax
.942 **Front or pectoral**
.946 **Back or dorsal**
.95 Abdomen
.951 **Epigastric region**
.955 **Mesogastric "**
.957 **Hypogastric "**
.959 **Lumbar "**
.96 **Pelvic and perineal region**
.962 True pelvis
.964 False "
1 Inlet 2 Cavity 3 Outlet
.966 Position and size
.968 Difference between male and female pelvis

611.97 Upper extremities
.971 **Shoulder or axilla**
.972 **Arm**
.973 **Elbow**
.974 **Forearm**
.975 **Wrist**
.976 **Hand**
.977 Fingers
.98 Lower extremities
.981 **Hip** **Nates** **Sulcus inguinalis**
1 Hip
2 Nates
3 Sulcus inguinalis
4 Inguinal canal
5 Crural or femoral canal
.982 **Thigh**
.983 **Knee** **Popliteal space**
.984 **Leg**
.985 **Ankle**
.986 **Foot**
.987 Toes
.99 Tail

612 Physiology

SUMMARY

612.013 Vitalism
.014 Cells and organisms
.015 Physiologic chemistry
.1 Blood and circulatory system
.2 Respiration
.3 Digestion
.4 Glandular system
.5 Animal heat
.6 Reproduction Development
.7 Motor and vocal apparatus
.8 Nervous system

.01 **General theory of physiology**
.0111 Notion, definition, nature
.0112 Classification, division
.0114 Terminology, notation, symbols
.0118 Methods
.012 Physiologic theories and generalities
.013 **On the nature of life and deth** **Vitalism**
This place is provided for the physiologist who prefers to keep related topics with his subjects. Usually the heads under this number are better clast in their broader relations; i. e. see 577.2 for the nature of life; 577.7 for the nature of deth; 612.67 for deth as a stage in vital history
1 Signs of real deth See 577.7
2 Experiments on executed persons
4 Theories of life and the soul Vitalism
See metaphysics, 128
5 Comparisons of animals and plants See 577.5
6 Organism and inanimate matter See 577.1
7 Vital energy See 577.6
8 Experiments on surviving organs See 577.6
.014 **General physiology of cells and organisms**
See 576 and note under 612.013
1 Chemistry of cells
11 **Aerobic and anaerobic cells**
2 Physiologic morfology of cells
21 **Functions of protoplasm**
22 " " **nucleus**
24 " " **chromosome bodies** **Chromatolysis**
26 " " **centrosome**
3 Physiologic characteristics of cells
31 Irritability in general
32 Fatigue
4 Influence of environment on cells and organisms Mesology
41 **Effects of barometric pressure**
See also 612.27 Influence of barometric pressure on living beings
42 **Action of electricity** **Electrophysiology**
421 Electrophysiologic technic
See also 615.84 Electrotherapy
2 Static electricity
4 Dynamic electricity
5 Alternating currents
7 Electric mesurements
8 Special instruments
1 Electrodes 2 Telefone, microfone 6 Galvanometers
422 Electric resistance Conductibility

612.014 423 Electric phenomena of organisms
For electric phenomena of muscles see 612.743, of nervs and muscles see 612.813
1 Theory of electric phenomena
2 Negativ variation
3 Electrotonus
4 Electric phenomena of tissues in repose and in action
424 Action of electricity on organisms
Everything concerning effect of electricity on function may be clast here by adding 0 and dividing like 612; e. g. action of electricity on red corpuscles 612.014424 0111, as .111 is the subdivision of 612 meaning red corpuscles. Action of electricity on bile 612.0144240357, as .357 means bile
2 Action of static electricity
3 " " atmospheric "
4 " " dynamic "
5 " " alternating currents
425 Deth by electric shock; by lightning
426 Magnetic action
427 Galvanotropism
428 Electrotherapy from physiologic point of view
43 Action of heat and cold See also 612.59
44 Action of light See also 612.843
445 Phosphorescence
447 Heliotropism Phototropism
See also 615.831 Phototherapy
45 Action of sound and its vibrations
See also 612.85876
46 Poisons and chemical substances
Poisons and definit chemical substances are preferably clast in 615.7, general toxicology in 615.9. This number is for topics of special physiologic interest
461 Effects of water
1 Reviviscent animals
2 Hydrations
3 Quantity of water in organisms and tissues
462 Physicochemic forces
1 Osmosis
2 Molecular concentration in organic fluids Cryoscopy
Subdivisable with 0 like 612; e. g. Cryoscopy of gastric juice 612.0144622203 2
3 Relation between secretion and osmotic pressure
4 Relation between osmosis and electric action: ions
5 Colloid substances: coagulation, agglutination, etc.
See also 612.398133 Theory of histologic conservation
6 Reaction, acid or alkalin
7 Viscosity
8 Superficial tension
9 Other physicochemic forces
463 Action of mineral salts on organisms
464 " " air, normal and abnormal; of oxygen and ozone
465 " " anesthetics
466 " " antiseptics
467 Chemotaxis Chemotropism
469 Action of other chemical forces
47 Action of mechanical forces
477 Geotropism
478 Thigmotaxis
48 Other physical forces
481 Various rays
1 Physiologic effect of X rays
To express effect of X rays on a specific organ or tissue, add 0 and subdivide like 612; e. g. effect of X rays on sight 612.0144811084
4 Effect on lower organisms
482 Effect of radioactiv substances; Becquerel rays
483 Production and action of N rays

612.015 Physiologic chemistry in general
1 Ferments
11 Oxydants Reducing ferments
12 Hydrolytic
13 Proteolytic
14 Lipolytic
15 Amylolytic and sucroclastic
16 Glycolytic
161 Alcoholic
2 Normal composition of the body and its products
See also 612.3926, 612.396–.398
21 Extracts of organs
3 Metabolism
31 Of mineral substances
See also 612.3926
32 Of carbon
See also 612.22
33 Of nitrogen
See also 612.46123
34 Of substances foren to the normal organism
Elimination of poisons
Most material will be clast under 615.7 and its subdivisions
See also special organs
346 Metabolism of nonnitrogenous substances
347 " " crystallizable nitrogenous substances
348 " " albuminoids
349 " after deth Autolysis
Subdivisable with 0 like 612; e. g. autolysis of the liver 612.0153490 35
35 Influence of temperature on metabolism
See also 612.59
36 Reductions, hydrations and syntheses in organisms
37 Influence of other agents on metabolism
38 Influence of nervous system on metabolism
39 Metabolism in disease
4 Staining substances and pigments
.016 **Means of attack and defense**
Comparativ physiology; usually better clast in 591.57
1 Autotomy
2 Mimicry
3 Physiology of parasites
.019 **Comparativ physiology**
May be subdivided like 590 to signify kind of animal; e. g. Reptils being 598.1, comparison of reptil and human physiology is 612.01981 Class here only books written distinctly from physiologist's point of view Other works on comparativ zoology are better in 591.1

Form divisions

.02 Compends
.03 Dictionaries Cyclopedias
.04 Essays Addresses
.05 Periodicals
.06 Societies Clubs
.07 Study and teaching
.077 Vivisection
See also ethics, 179.4, and laws 614.22
.08 Polygrafy
.09 History

612.1 **Blood and circulatory system**

.109 **History of circulation of blood**

.11 General properties of blood

.111 **Red corpuscles**

1 Chemic composition

11 Hemoglobin and oxyhemoglobin

14 Carboxyhemoglobin

Action of CO on blood, carbon monoxid hemoglobin

15 Spectroscopy of blood

16 Methemoglobin and derivates

Hematin or hematoxylin, hematoidin, globin, hemin or Teichmann's crystals, hematochromogen, hematoporphyrin

17 Isotony of corpuscles Osmotic permeability

19 Chemical substances in corpuscles

Lecithin, urea, cholesterin, etc.

2 Number of corpuscles

Technic of counting

22 Volume of corpuscles

3 Formation of corpuscles

See also 612.119 Sanguification

4 Action of poisons on corpuscles

See also 612.11114 Action of CO on blood

44 Agglutinating substances

45 Hemolytic substances

6 Corpuscles in disease

7 Other red corpuscles than erythrocytes

8 Coloring matters of invertebrate blood

e. g. hemocyanin

9 Other similar coloring matters

e. g. chlorophyl and derivates: phylloerytrin

.112 **Leucocytes and ameboid cells**

1 Chemistry of leucocytes

11 Ferments of leucocytes

Influence of leucocytes (lymphocytes) on digestion

2 Movements and irritability of leucocytes

3 Phagocytosis

4 Diapedesis

5 Effect on coagulation of blood

6 In disease and intoxications Leucocytosis

For digestiv leucocytosis see 612.11211

7 Counting and its technic

8 Numeric relations of white and red corpuscles

9 Varieties Physiologic morfology

.113 **Arterial blood**

.114 **Venous "**

.115 **Coagulation of blood**

1 Fibrin Fibrinoplastin

11 Composition and chemical properties

12 Fibrogenous and fibrinoplastic ferments Fibrinogen Thrombin

13 Estimating quantity of fibrin

3 Substances modifying coagulation

31 Retarding agents

35 Accelerating agents

612.116 **Total quantity of blood**

2 Hemorrhage Anemia

Subdivisable with 0 like 612; e. g. physiologic influence of anemia on kidneys 612.1162046 For pathologic effect see 616.243, 618.54

21 Hemostasia

3 Transfusion

Effect on system receiving transfused blood

.118 **Physical and biologic properties of blood**

1 Physical

11 Osmotic pressure

See also 612.11117 Osmotic permeability

12 Effect of various injections

14 Viscosity

17 Cryoscopy of blood

Method of studying isotony and similar phenomena by relativ freezing points of solutions

2 Biologic properties

21 Toxins and antitoxins

Physiologic effect For chemical action see 612.3988 May be used for those not produced by the blood, e. g. cytotoxins

211 Theory of toxic and antitoxic action

22 Toxic and antitoxic action of blood

Limited to blood toxins and antitoxins. See also 612.3988

221 Specific reaction of blood and albuminoids

Blood in legal medicin

222 Natural immunity

223 Effect of blood on bacteria

Class here physiologic aspect of opsonic theory, opsonins and opsonic index

24 Various toxic and antitoxic substances of blood

7 Varieties of blood in different parts of body

.119 **Hematopoiesis or sanguification**

See also 612.1113 Formation of red corpuscles

.12 Chemic properties of blood

.121 **Reaction and density**

Color reaction Specific gravity

.122 **Carbohydrates in blood**

1 Glucose 2 Glycogen 3 Glycolytic ferments

.123 **Fats, lipoids, cholesterin, saponin, glycerin**

.124 **Albumins and albuminoids Uncrystallizable nitrogen compounds**

See also 612.39812 Blood serum

.125 **Crystallizable nitrogen compounds**

1 Staining substances of serum

.126 **Mineral salts**

.127 **Blood gases**

1 Technic for determining quantity 2 Oxygen 3 Carbonic acid

.128 **Ferments**

.129 **Other chemic substances**

Abnormal substances

612.13 Hydraulic principles of circulation
.133 **Arterial circulation**
Sounds and murmurs
See also 612.143
.134 **Venous circulation**
See also 612.144
1 Air in the veins
2 Venous pulse Phlebogram
.135 **Capillary circulation**
.14 Blood pressure
.141 **Technic of mesuring pressure**
Sphygmograf Sphygmomanometry
.143 **Pressure in arteries**
See also 612.133
.144 **Pressure in veins**
See also 612.134
.145 **Pressure in capillaries**
See also 612.135
.146 **Influence of various agents on pressure**
1 Influence of respiration Asphyxia
See also 612.213
2 Effect of drugs and organic extracts
3 Pressure in disease
.148 **Pressure in lesser or pulmonary circulation**
.15 Rapidity of circulation
In arteries, veins or capillaries Technic of mesuring
.16 Pulse
For dicrotic pulse see 616.071 Pulse in diagnosis
See also 612.1342 Venous pulse
.166 **Pulse in disease**
.17 Hart
.171 **Mechanism of cardiac contraction**
Impulse or apex beat Change of volume and position of beating hart Systole Diastole
1 Technic of cardiac contraction Cardiografy
3 Valvs System of valv closure
5 Hart sounds
56 " " in disease
7 Action of abnormal hart: misplaced or malformd
.172 **Hart as a muscle**
Cardiac irritability, contractibility and physiologic morfology
1 Action of blood and coronary arteries Cardiac anemia
2 Rhythm Excitation wave Frequency of beats
3 Electric stimulation of hart and refractory period
4 Electromotiv force
5 Surviving hart Artificial respiration
Solutions maintaining beat of hart
6 Physiologic morfology
61 **Conduction of stimulation**

612.173 **Work of the hart**
Chemic, dynamic and thermic phenomena
1 Chemic composition of hart
2 Intracardiac pressure
.174 **Effect of toxins on the hart**
1 Atropin
2 Anesthetics
.176 **Hart in disease**
.178 **Innervation of hart**
1 Pneumogastric or vagus
See also 612.819911
2 Sympathetic
See also 612.897
3 Ganglions of hart
4 Action of cerebrum
See also 612.8228
5 Action of medulla oblongata
See also 612.828
6 Cardiac syncopes and reflexes
7 Depressor nerv
.179 **Prenatal circulation**
.18 Vasomotors
.181 **Action of nervs and nerv centers on bloodvessels**
1 Action of cerebrum
2 " " medulla oblongata
3 " " spinal cord
4 " " great sympathetic
.182 **Influence of vasomotors on arterial pressure**
.183 **Vasoconstrictors**
.184 **Vasodilators**
.185 **Effect of poisons on vasomotors**
.186 **Vasomotors in disease**
.187 **Vasomotors in organs**
Divide like 612 Physiology; e. g.
612.18724 Effect of vasomotors on lung capacity
612.1878421 Effect of vasomotors on iris
612.1875 Influence of vasomotors on temperature
612.187556 Vasomotors in fever
.188 **Erectil tissues**
See also 612.612
.189 **Change of volume of organs**
Plethysmografy Quantity of blood in various organs
.19 Action of special organs on circulation
.2 **Respiration**
See also 612.793 Cutaneous respiration
.21 Respiratory movements Mechanics of respiration
.211 **Pneumografy Respiratory types**
Respiratory excursion
.212 **Pulmonary elasticity and intrapleural pressure**
Intrapulmonary and intrathoracic respirations

612.213 **Influence of respiration on circulation**
See also 612.1461
.215 **Special physiology of respiratory apparatus**
1 Bronchi
2 Trachea
3 Smooth pulmonary muscles
4 Primary paths of respiration: nose and pharynx
5 Pleura
8 Pulmonary circulation
See also 612.148
9 Pulmonary absorption of liquids
See also 612.385
.216 **Respiratory frequence and rhythm**
1 Respiratory sounds
2 Pulmonary ventilation
3 Artificial respiration, artificial changes of respiration
.217 **Action of muscles** **Mechanical phenomena**
Dimensions and expansibility of thorax
1 Action of diafram
.219 **Other mechanical phenomena**
Modified respiratory acts: snoring, laughing, crying, sighing, yawning, coughing, hawking, sneezing, blowing nose, gargling
.22 Respiratory exchange of gases Respiratory chemistry
02 Action of oxygen and ozone on organisms
08 Composition of normal air (only in its physiologic bearing)
.221 **Technic of gaseous exchange**
.222 **Effect of various agents on gaseous exchange**
.223 **Effect of quality of air**
Hyperpnea, polypnea, thermopnea
1 Composition of abnormal air
11 **Carbonic acid**
12 **Activ oxygen or ozone**
2 Influence of barometric pressure
See also 612.27
3 Influence of climate
See also 612.2751
.224 **Influence of food**
.225 " " **temperature**
.226 **Effect of disease and intoxications**
.227 **Influence of organs**
1 Influence of muscular movements
Motion, rest, work
2 Influence of nervous system
3 " " circulation
.229 **Influence of animal kind**
Variability of gaseous exchange in animal kir
1 Influence of stature
2 Aquatic animals

612.23 Gaseous exchange in the blood
.231 **Expired air** **Respiratory quotient**
.232 **Asphyxiation**
In legal medicin
1 Artificial respiration in asphyxiation
2 Asphyxiation by submersion
3 Hart in asphyxiation
4 Toxic action of carbonic acid (CO_2)
.233 **Respiration in confined air**
.234 **Toxic action of carbonous oxid (CO)**
See also 612.11114 and 615.96
.235 **Exchange of gases between air and blood**
1 Theory
.24 Lung capacity Vital capacity
Residual, reserv, respiratory or tidal and complemental air
.25 Exhalation of water from lungs
.26 Internal or tissue respiration
.261 **Exchange of gases between tissues and blood**
.262 **Accumulation of oxygen in tissues (cells)**
.27 Influence of barometric pressure on living beings
See also 612.01441. For effect on absorption of oxygen and exhalation of carbonic acid see 612.2232
.273 **Toxic effects of oxygen and ozone**
.274 **Effect of more than normal pressure**
Physiologic aspect of caisson disease
.275 **Effect of less than normal pressure**
1 Physiologic and therapeutic effects of high altitudes
11 **Mountain and aeronautic sickness**
.276 **Effect of pressure on fermentations**
Effect of removing pressure
.279 **Maximum pressures**
Effect on aquatic animals
.28 Respiratory centers
Influence of nervous system on respiration
.281 **Action of cerebrum and of will**
.282 " " **medulla oblongata and vagus nucleus**
.283 " " **spinal cord**
.284 " " **chemic substances and abnormal blood gases**
1 Toxicology of center
2 Apnea, acapnea, dyspnea
See also 612.232
.287 **Action of pneumogastric or vagus nervs**
See also 612.819912
.288 **Respiratory reflexes**
See also 612.8332
.29 Influence of other organs on respiration

612.3 **Digestion**

May be subdivided by 01-09 for form, if needed

.31 Mouth Teeth Salivary glands

.311 **Mastication and prehension**

1 Physiology of teeth

.312 **Deglutition or swallowing**

2 Tonsils 3 Tung

.313 **Salivary glands Saliva**

1 Composition of normal saliva

2 Action of saliva on food Ptyalin

3 Salivary secretion

31 Toxic effect of saliva

4 Action of chemic substances

See also Therapeutics, 615.741 Sialagogs

41 Elimination

42 Action of atropin and of pilocarpin

5 Physiologic morfology

6 Pathologic changes of saliva

61 Salivary fistulas

63 Bacteriology

64 Salivary calculi

69 Abnormal substances

8 Action of nervous system on salivary secretion

82 Action of sympathetic nervs

See also 612.898

87 Action of chorda tympani

See also 612.81977

.314 **Salivary venoms and venoms in general**

1 Chemical composition

2 Toxic action

3 Natural immunity and resistance to venoms

4 Attenuation and neutralization of venoms

5 Treatment of venom poisoning Serotherapy

See 615.94 Duplicated here for physiologist only

51 Antitoxins

See also 612.11822 Antitoxins of serum

.315 **Esophagus**

.32 Stomach Gastric juice Vomiting

.321 **Normal composition of gastric juice**

1 Gastric fistulas, experimental and pathologic

2 Determination of acid in gastric juice

5 Proteolytic ferments: pepsin

6 Milk curdling ferments, inorganic and organic

.322 **Digestiv power of gastric juice**

1 Starch and analogs

2 Sugars " "

3 Fats " "

4 Albuminoids

45 Nature and properties of peptones

See also 612.39817

5 Antiputrefactiv properties of gastric juice

6 Mixture of bile or other secretions of digestiv tract and gastric juice

612.3227 Absorption in stomach and transformation (into mucus) of products of digestion

See also 612.386

72 Absorption and transformation of sugars

73 " " " " fats

74 " " " " nitrogenous substances (peptones)

75 " " " " salts Effect on stomach

.323 **Stomach secretion**

2 Formation and destruction of pepsin

21 Pepsin in urin

3 Formation of hydrochloric acid (HCl)

4 Autodigestion of stomach

5 Effects of removing stomach

.324 **Action of chemic substances (poisons) on gastric secretion and their elimination**

.325 **Physiologic morfology of stomach**

Relation between morfologic changes and stimulation

.326 **Pathologic changes of stomach secretion**

3 Bacteriology

5 Gastric juice in disease

9 Abnormal substances in gastric juice

.327 **Movements of stomach**

1 Muscular irritability of stomach

2 Motor action of pneumogastric See also 612.819913

3 Evacuation of stomach

5 Merycism and rumination

7 Vomiting

8 Action of emetics or vomitories

See also under therapeutics, 615.731 Emetics

.328 **Action of nervous system on stomach**

1 Psychic influence on stomach secretions

8 Sensibility of stomach

.33 Intestin

Middle intestin and glands of middle intestin in invertebrates

.331 **Normal composition of intestinal juice**

1 Intestinal fistulas, experimental and pathologic

7 Intestinal gases Fermentiv process due to bacteria

.332 **Intestinal digestion**

2 Carbohydrates

3 Fats

4 Albuminoids and derivates Erepsin

7 Absorption and changes of food in intestin

See also 612.386

72 Carbohydrates

73 Fats Chyliferous vessels See also 612.426

74 Albuminoid derivates

75 Other substances

751 Inorganic substances Water and salts

8 Action of intestinal juice on other secretions and ferments

See also 612.3226

84 Enterokinasis and secretin

612.333 **Intestinal secretion**

·334 **Action of chemic substances on the intestin and their elimination**

4 Purgativs

See also therapeutics, 615.732 Cathartics

·335 **Physiologic morfology of intestin**

5 Intestinal circulation

·336 **Pathologic changes of intestinal secretion**

3 Parasites and microbes

31 Bacterial fermentation Physiologic effect of microbes

·337 **Movements of intestin**

1 Movement of chyme in intestin

·338 **Action of nervous system on intestin**

1 Action of nervs and nerv centers on secretion

·339 **Peritoneum Omentum**

1 Absorption in peritoneum

See also 612.387

·34 Pancreas Pancreatic juice

·341 **Normal composition of pancreatic juice**

1 Pancreatic fistulas

·342 **Action of pancreatic juice on food Tryptic digestion**

1 Starches and analogs

2 Sugars

3 Fats Steapsin or ptyalin

4 Albuminoids Trypsinogen Trypsin

5 Effect on other digestiv phenomena

51 On bile and gastric juice

See also 612.3226

·343 **Pancreatic secretion**

·344 **Action of special substances on pancreatic secretion and juice**

·345 **Physiologic morfology**

Relation between morfologic changes and stimulation

·346 **Pathologic changes of pancreatic juice**

·348 **Action of nervous system on pancreas**

·349 **Pancreas as an internal gland Ilands of Langerhans**

1 Pancreatic glycosuria

See also 612.35216 and 612.46621

·35 Liver

·351 **Hepatic circulation and chemic composition**

1 Chemic composition

11 Ferments

5 Hepatic circulation

51 Ligature of portal vein

6 Effect of extracts from hepatic tissue

61 Hepatic opotherapy

612.352 **Effect of liver on absorbd foods**

1 Glycogenesis Glycogen of liver and its tissues

See also 612.396112 Chemistry of glycogen

11 Determination of amount of sugar and glycogen: technic

12 Sugar of the blood See also 612.122

13 Action of nervs on glycogenic function Experimental diabetes

14 Fermentation of glycogen Glycogenolysis

16 Glycosuria (diabetes) in general

See also 612.3491, 612.46621 and pathology 616.63

17 Glycogen of other organs

18 Glycogen of muscles See also 612.74411

19 Relations between glycogenesis and alimentation

2 Fat Adipogenic function

·353 **Hepatic chemic phenomena**

1 Formation of urea See also 612.4612

·354 **Action of poisons on liver**

1 Toxic steatoses

2 Antitoxic action of liver

·355 **Temperature of liver** See also 612.563

·356 **Hematopoietic function of liver and effect on blood**

See also 612.119

·357 **Bile**

1 Normal composition of bile

11 Biliary fistulas

13 Coloring matter Bile pigments

Bilirubin, biliverdin For origin see 33 below

14 Mineral salts

15 Biliary acids and their salts

Glycocnolic and taurocholic acids

2 Action of bile in the intestin

Final fate of bile

3 Bile secretion

31 Quantity

32 Origin of bile acids

33 " " " pigments

4 Action of chemic substances on bile secretion

See also therapeutics, 615.742 Cholagogs

5 Elimination of poisons by bile

6 Pathologic physiology of bile

64 Biliary calculi

65 Obliteration of bile ducts Icterus Jaundis Cholemia

See also pathology, 616.36 Liver and bile ducts

66 Bile in disease

67 Toxic effects of bile

69 Abnormal biliary substances

7 Biliary excretion Physiology of ducts

71 Gall bladder

72 Absorption in biliary ducts

73 Contractility of ducts

8 Innervation of bile ducts

·358 **Action of nervous system on liver**

·359 **Ablation, regeneration, cicatrization and other morfologic phenomena**

1 Volume of liver

2 Fatty or starchy degeneration

612.36 Defecation Large intestin
Proctodeum and its appendages in invertebrates
.361 **Chemic composition of excrements**
.363 **Cecal digestion Vermiform appendix**
.364 **Absorption in large intestin**
.365 **Defecation**
.366 **Rectum**
.367 **Movements of large intestin**
.368 **Innervation " " "**
.38 Absorption
.381 **Imbibition Transudations and exudations Edema**
.382 **Osmosis** See also 612.0144621
1 Dialysis of mineral salts
2 " " sugars
4 " " albuminoids
.383 **Diffusion**
.384 **Absorption by skin**
See also 612.79
.385 **Absorption by lungs**
See also 612.2159
.386 **Absorption in digestiv tract**
General; see also specific part of tract
.387 **Absorption by mucous and serous membranes**
See also 612.3391
.388 **Parenchymatous absorption**
Absorption by cellular tissue (after injection)
.39 Nutrition Metabolism
.391 **Hunger Thirst Inanition**
3 Hunger, thirst and nervous centers Mechanical action of hunger
4 Inanition in man
6 " " disease
9 " " animals
92 Inanition in poikilothermic animals
96 " " homoiothermic "
.392 **Foods**
1 Assimilation of carbon
2 " " nitrogen
See also 612.46123
3 Assimilation of water
4 " of sulfur, phosphorus and iron
3 Sulfur 4 Phosphorus 5 Iron
5 Thermodynamic value of food
6 Mineral foods
1 Sodium salts 2 Potassium salts 3 Calcium salts
7 Vegetable foods
71 Vegetarianism See also hygiene, 613.26 Vegetable diet
72 Fruits and fresh vegetables
73 Cereals
74 Bread

612.392 8 Animal food
See also hygiene, 613.28 Meats in diet
81 Meats
82 Soup Meat extracts
83 Egs
84 Milk
See also 612.664
841 Sterilization and artificial changes in milk
85 Cheese
86 Butter
9 Special artificial foods
.393 **Condiments and stimulants**
1 Alcohol as food Fermented drinks
See also hygiene of nervous system, 613.81 Alcohol
2 Coffee Tea
See also hygiene of beverages, 613.37
9 Condiments
.394 **Ration or food requirement during growth**
2 Of man Nourishment of newborn
3 " animals
.395 **Ration or food requirement of adults**
1 Working ration Normal ration
12 Working ration for man
13 " " " animals
2 Subsistence ration
22 Subsistence ration for man
23 " " " animals
5 Relations of ration to external conditions, e. g. climate
6 Food requirements in disease
.396 **Carbohydrates**
1 Chemic composition
11 Polysaccharids
111 Starch Inulin
112 Glycogen
113 Cellulose
12 Gums and analogs: dextrin
13 Monosaccharids: glucose, mannose, gallactose, fructose, etc.
14 Disaccharids: sugar, lactose, maltose, etc.
17 Combined carbohydrates
See 612.3981453 Glycoproteids
172 Chitin
175 Glycosids: amygdalin, salicin, phlorizin, saponin, etc.
19 Other carbohydrates: pentose, inusitum
2 Changes of sugars in organism Glycolysis
21 Products of carbohydrates; e. g. glycuronic acid
22 Alcohol in tissues
3 Hydrolytic ferments of carbohydrates and analogs
31 Amylasis, inulasis, cytasis, etc.
32 Saccharoclastic ferments Inversion
4 Formation of carbohydrates in organism
5 Thermodynamic value of carbohydrates
7 Quantity of carbohydrates in foods and tissues

612.397 **Fats**
1 Chemic composition
2 Changes of fats in organism
21 Fatty degeneration and infiltration See also 612.3952
22 Products of fats
23 Acids
24 Glycerins
3 Lipolytic ferments
4 Formation of fats
5 Thermodynamic value
7 Quantity of fat in food and tissues Adiposity
8 Lipoids
81 Cholesterin
82 Lecithin

.398 **Albuminoids and nitrogenous substances**
1 Chemic composition
11 Composit albuminoids
For eg albumin see also 612.39283
12 Blood serum and other serous fluids of body
See also chemical properties of blood, 612.124 Albuminoids
13 Simple albuminoids
131 Albumin
132 Globulins: fibrinogenic and fibrinoplastic substances, myosin, etc.
133 Coagulated albuminoids Fibrin Coagulation of albuminoids
135 Albuminoids as acids or bases
136 Nucleoalbumins, simple phosphorated albuminoids
138 Protamins
139 Other albumins
14 Other albuminoids
145 Proteids
Albumin + a complex organic compound
1 Nucleoproteids
Albumin + nucleic acid, products of nucleic acid and specific ferments
2 Hemoglobin and analogs
Albumin + an iron compound. See also 612.11111
3 Glycoproteids
Albumin + a carbohydrate. See also 612.3967
146 Albuminoids: glutin, elastin, amyloid, etc.
15 Vegetable albuminoids
16 Albuminoid products and nitrogen compounds
17 Albuminoses and peptones
172 Thermodynamic value
175 Changes of substances derived from albuminoids by digestion
19 Products of complete change of albuminoids Nitrogen compounds
191 Protaminic nucleus See also 612.398138
192 Amidic acids
193 Urea Uric acid See also 612.4612, 612.46125, 612.398195
194 Ammonia and ammonia compounds
195 Bases (alkaloids), purin compounds
196 Aromatic compounds
197 Nonnitrogenous products of albuminoids
199 Other products
2 Changes of albuminoids in organism
3 Proteolytic ferments
Only general works See specific nitrogen compounds for their derivates, ferments and properties For milk curdling ferments see 612.3216 and 612.664171
Thermodynamic value of albumins and derivates
Albumin as food

612.398 6 Formation of albuminoids in general
7 Quantity of albuminoids in food and tissues
8 Toxins, antitoxins Chemistry of poisons
Chemistry of poisons. For action, see 612.11821; for animal poisons, see 612.314; for ptomains, leucomains, etc. see 612.398195 above

.4 **Glandular system Secretion Excretion**
.401 Effect of circulation on glands
.402 " " glands " circulation and blood
.403 " " " " nutrition
.404 " " nutrition " glands
.405 Physics and chemistry of secretion
.407 Effect of glands on nervous system
.408 " " nervous system on glands
See also 612.817
.409 Physiologic morfology of secretions and glandular epitheliums
.41 Spleen
.411 **Hematopoietic action Effect of spleen on blood**
.412 **Splenotomy Circulation in spleen**
.413 **Contractility of spleen**
.414 **Spleen in relation to other organs**
1 Effect on digestion
.416 **Function of spleen in disease, in experimental infections and in wounds**
.418 **Chemic phenomena**
.42 Lymphatic system and lymph
For lymphocytes see 612.112
.421 **Lymph Chemic composition**
.422 **Quantity and origin of lymph**
.423 **Lymphatic circulation**
1 Thoracic duct
.424 Lymphatic harts
.425 **Innervation of lymphatic system**
.426 **Lymphatic absorption**
See also 612.33273
.427 **Lymphatic fistulas**
.428 **Lymph glands**
.43 Thymus
.44 Thyroid gland
.441 **Chemic composition**
.442 **Parathyroid glands or accessory thyroids**
.445 **Thyroidectomy Destruction of thyroid**
Including pathologic destruction
.448 **Effects of thyroid extracts**
.45 Suprarenal capsules
.451 **Chemic composition**
.455 **Excision and destruction**
.458 **Effect of capsular extract**

612.46 Kidneys Urin

.461 Chemic composition of urin

.1 Reaction and physical properties
- 11 Reaction
- 12 Density
- 13 Temperature
- 17 Urinary technology
  - 174 Staining reactions
  - 175 Spectroscopic examinations
  - 176 Polarimetric "
  - 177 Histochemic "
  - 178 Pathologic urinary technology
  - 179 Densimetry and cryoscopy of urin

2 Urea and nitrogen compounds
- 21 Determination of quantity of urea Ureameters
- 22 Determination of total nitrogen
- 23 Excretion and metabolism of nitrogen
  - 231 In relation to alimentation
  - 232 " " " work
  - 234 Effect of chemic substances (poisons)
  - 235 Influence of temperature
  - 236 " " disease
  - 238 " " nervous system
  - 239 " " animal kind
  - Variability of process in animal kingdom
- 25 Uric acid See also 612.398193
  - 251 Determination of quantity
  - 254 In animals
  - 255 " normal man
  - 256 " man in disease: uric diathesis
  - 259 " other tissues and fluids than urin
- 26 Other nitrogen products of urin
  - 261 Bases Xanthin bases See also 612.398195
  - 262 Ptomains
  - 263 Allantoin
  - 264 Peptones See also 612.46668, 612.39817
  - 266 Hippuric acid
  - 267 Ammonium and other urates See also 612.398194
  - 268 Ferments See also 612.32321
  - 269 Physiologic albuminuria
- 27 Coloring matter Pigments: urobilin, urochrome

6 Salin substances in urin
- 61 Chlorin salts
- 62 Phosphorus and its compounds
- 63 Sulfur and its compounds
- 64 Gases of urin

8 Nonnitrogenous organic constituents of normal urin
- 82 Sugars Physiologic glycosuria

.462 Urinary toxicity

1 Internal secretion of kidneys

.463 Urinary secretion

1 Quantity of urin

2 Elimination of urin

4 Renal circulation

5 Influence of blood and circulation

6 Comparativ secretion of the two kidneys

8 Effect of nervous system
- 81 Glycosuria, polyuria after lesion of medulla oblongata

612.464 Action of poisons on urinary secretion and their elimination

1 Diuretics Polyuria
- See also 615.761 Diuretics in therapeutics

2 Toxic albuminurias
- See also 612.46622

3 Elimination of poisons by urin

4 Toxic glycosuria Phlorizin
- See also 612.46621

.465 Physiologic morfology of kidneys

.466 Pathologic physiology of kidneys and urin

1 Urinary calculi

2 Urin in disease
- 21 Urin in diabetes Chemistry of glycosuria For physiology of diabetes see 612.35216
- 22 Urin in albuminuria Albuminuria in general
  - See also 612.461269, 612.4642 and 616.634
- 23 Resection and lesion of kidneys, experimental and pathologic Ligature of ureter, etc.
  - 231 Uremia See also 616.638
- 26 Urin in fever

6 Abnormal substances in urin
- 61 Acetonuria Acidosis
- 62 Chyluria
- 63 Other abnormal products of metabolism
  - 631 Glycuronic acid See also 612.39621
- 64 Products of intestinal putrefaction Indican
- 67 Biliary pigments Choluria
- 68 Albuminoses and peptones
- 69 Hematuria and hemoglobinuria

7 Urinary fermentation Putrefaction of urin

.467 Urinary discharge

1 Physiology of bladder, ureters and urethra
- 11 Micturition

2 Absorption in urinary passages

3 Innervation of vesical apparatus
- For prostate see 612.617 For action of nervous system on function of kidneys see 612.4638

.49 Other glands and secretions

.491 Bone marrow

.492 Hypophysis or pituitary gland

.493 Scent glands of animals

.494 Bartholini's glands

.495 Carotid gland

.499 Other glands
- See also 612.664, 612.792

612.5 **Animal heat**

·51 Sources Thermogenesis Calorimetry

·511 **Direct calorimetry**

6 Calorimetry in disease

·512 **Indirect calorimetry**

1 Influence of alimentation

3 Effect of respiration

·52 Loss of heat Radiation Thermolysis

Conduction of animal tissues

·521 **Cutaneous radiation**

1 Physiology of clothing

·523 **Loss by pulmonary evaporation**

·524 " " **cutaneous evaporation**

·53 Regulation of temperature Heat balance Thermotaxis

·531 **Influence of vasomotors**

·532 " " **muscular movement**

See also 612.7453

·533 **Effect of perspiration**

·534 " " **respiration** **Thermic polypnea**

·535 **Thermic centers**

·54 Other conditions affecting temperature and thermogenesis

·541 **Effect of baths**

·543 " " **inanition**

See also 612.391

·544 **Effect of poisons**

·55 Variations in production and regulation of heat

·556 **In disease: fevers**

·56 Temperature of body

·563 **Thermic topografy**

·58 Hibernating animals

·59 Heat and cold; effect on organism

Subdivisable with o like 612; e. g. 612.59074 Effect on muscles
612.5908 " nervous system

See also 612.01443

·591 **Effect of heat** **Deth from heat** **Thermic rigidity**

·592 **Effect of cold** **Deth from cold** **Rigidity from cold**

612.6 **Reproduction and generation** **Development**

.601 **Spontaneous generation**

See origin and beginnings of life, 576.11

.602 **Transplantation** **Animal grafting**

May be divided by organs like 612

.603 **Cicatrization** **Regeneration**

May be divided by organs; e. g. 612.60344 Regeneration of thyroid
612.60384 " " eye

.604 **Reproduction of lower organisms**

Protozoa, etc.

1 Asexual: fission, division, gemmation or budding or sprouting

2 Sexual: conjugation or concrescence

5 Variations: alteration of generations or metagenesis, pedogenesis, parthenogenesis

.605 **Morfogenesis in general** **Heredity**

See 575 Evolution

1 Heredity

2 Variation, including artificial

3 Hybridization

4 Tumors

Only for physiologic aspect, for pathology see 616.992

.606 **Proportion and determination of sexes**

See also Biology, 577.8 Sexes in nature, sexuality

.607 **Consanguinity** **Incest**

.608 **Hermafroditism**

.609 **Theory of evolution** **Natural selection and darwinism**

See 575 Evolution

.61 Male functions of generation

For semen see 612.616

.612 **Erection**

Including also the function in general, in either or both sexes See also 612.188

.613 **Copulation and fecundation**

1 Artificial "

2 Parthenogenesis

21 Artificial parthenogenesis

.616 **Testicles** **Orchitic fluid** **Sperm**

1 Effects of castration Resection or injury, experimental or pathologic, of testicles or of sexual glands in general

2 Physiology of spermatozoa

3 Testicles as internal glands Interstitial cells

.617 **Appendages of male organs: seminiferous ducts, seminal vesicles**

.62 Female functions of generation Ovulation

See also 612.612 and 612.6161

.621 **Physiology of ovaries**

See also 612.6303

1 Ablation or injury of ovary, experimental or pathologic

See also 612.6161

.622 **Physiology of ovum**

.627 **Physiology of uterus**

1 Uterin circulation

8 Innervation of uterus

612.63 Impregnation Pregnancy Parturition
See also 612.612
01 Period of pregnancy
03 Ovary in pregnancy Corpus luteum
.64 Development of embryo
For embryology see 611.013; for abnormal development see 611.012 Teratology, 617.3 Deformities
.646 Physiology of embryo
.647 " " fetus
.648 " " newborn
.649 Appendages of embryo Amniotic fluid
See also 611.0138 Fetal appendages (in embryology)
.65 Growth after birth
See also 612.64
.651 Metamorfosis of lower animals Larvae
.66 Period of full development
.661 Puberty
.662 Menstruation
.663 Fecundity
.664 Lactation and milk
Physiology of mammary glands
1 Physics and chemistry of milk
12 Sugars
13 Fats Butter
14 Albuminoids
16 Mineral substances
17 Lactic fermentation Milk ferments
171 Milk curdling ferments Coagulation of milk
18 Other constituents
181 Abnormal substances
19 Comparison of milk of various animals
191 Human milk
3 Lactic secretion
31 Quantity
32 Formation of sugars
33 " " fats
34 " " albuminoids
35 Colostrum
36 Effect of various agents on secretion
4 Action of poisons on milk secretion and their elimination
5 Physiologic morfology of milk
6 Pathologic changes in lactic secretion
7 Digestion of milk
8 Innervation of mammary glands
.67 Period of decline Deth
See also 577.7
.68 Longevity
See also 368.3 Life insurance; 519.5 Probabilities; 614.12 Deth rates

612.7 Motor and vocal apparatus Skin
.71 Protoplasm
See also 612.014 General physiology of cells and organisms
.72 Vibratil cilia
.73 Smooth muscle
Divided like 612.74
.74 Striped muscle
Muscle in general, including smooth muscle
.741 Muscular contraction
1 Myografy
12 Single contraction of muscle fiber Jerk contraction
13 Tetanic contraction
14 Tonic contraction
15 Influence of chemic substances on muscles
16 Myografy in disease
2 Change of volume of muscle
3 Muscle wave
4 Elasticity of muscle
Myotonometry Effect of weight Tension
6 Muscular irritability Influence of blood
61 Circulation in muscles
62 Effect of stimulation
63 " " electricity
7 Latent period
Time elapsing between moment of stimulation and response by an activ tissue
8 Muscle murmur
9 Physiologic morfology of muscles
Histologic phenomena of contraction
.742 Muscles after deth Rigor mortis
1 Chemic phenomena after deth: autolysis
.743 Electric phenomena of muscles
.744 Chemistry of muscle
1 Normal composition
11 Carbohydrates
See also 612.35218 Glycogen of muscles
14 Albuminoids
15 Other organic substances
16 Mineral substances
Including water Muscle salts
17 Gases
2 Chemic effects of muscular contraction
21 Fatigue
211 Ergografy Dynamometry Work in general
22 Consumption of oxygen and production of CO_2 in work
23 Function of carbohydrates
24 Relation of chemic changes to work Metabolism in relation to work
.745 General effect on organism of muscular contraction or work
See also 612.532
1 Dynamic effects
3 Thermic "
5 Relations between work and heat

612.746 **Pathologic physiology of muscles**
1 Contractures
4 Tremors Shuddering
5 Nutrition of muscles Atrofy Degeneration Regeneration
Including nerv influence See also 612.818

.75 Bones, joints and connectiv tissues
.751 **Chemic composition of bone and connectiv tissue**
See also 612.398146
1 Bone
2 Cartilage
3 Connectiv tissue
.752 **Nutrition of bones**
.753 **Growth, cicatrization and regeneration of bone**
.754 **Periosteum Perichondrium**
.755 **Tendons**
.76 Locomotion
Principles of animal mechanism; comparativ study of locomotion preferably clast in 591.47
.761 **Chronofotografy: technic**
.763 **Special movements Combined movements**
Physiology of violin playing, etc.
.766 **Human locomotion**
1 Physiology of exercise and work
2 Rest
.767 **Animal locomotion Special organs of locomotion**
Swimming bladder of fishes
.768 Flight
.769 **Biologic adaptation of movement**
.77 Electric and phosphorescent animals
Preferably clast 591.59
.771 Electric animals
.772 Phosphorescent animals
.78 Voice and speech
See also 784.9 Vocal hygiene; 808.5 Elocution; 534.7 Sound
.781 **Sensibility of larynx**
.782 **Movements and innervation of larynx**
1 Influence of spinal accessory nerv
See also 612.819923
2 Influence of pneumogastric
See also 612.819917
3 Laryngoscopy
4 Movements of glottis
5 Epiglottis
.783 **Artificial larynx**
.784 **Singing Timbre, quality Voice register**
.785 **Larynx in deglutition and other laryngeal functions**
See also 612.312
.786 Organs of sound in lower animals
.788 Larynx of birds

612.789 **Speech Language**
1 Function of mouth and nose
2 " " lips and soft palate
3 Innervation of organs of speech Aphasia
See also 616.855
4 Vowels and consonants
5 Ventriloquism
See also 791 Ventriloquism as an amusement

.79 Skin
.79015 Chemic composition
.791 **Absorption**
See also 612.384
1 Penetration by solids
2 Absorption of fats
3 " " solutions
4 " " liquids
5 " " gases
.792 **Cûtaneous glands and secretion**
1 Swet Chemic composition
12 Toxic action of swet
4 Action of chemic substances on swet secretion
42 Elimination of poisons by swet
5 Physiologic morfology of swet
6 Pathologic changes of swet
8 Action of nervous system on cutaneous exhalation
9 Other cutaneous secretions
.793 **Cutaneous respiration**
4 Effect of suspended transpiration; closing pores by liniments, etc.
5 Effect of chemic substances on skin
See also 612.7924
.794 **Cutaneous sensibility**
.795 **Electric conductibility and resistance of skin**
See also 612.014422
.796 **Chromatophores and skin pigments**
.798 **Trofic nerves of skin**
.799 **Growth and physiology of nails and hair**

612.8 **Nervous system**

.801 **Theory of nervous system and innervation**
1 Dynamogenesis and inhibition
2 Action of nervous system on chemic phenomena
3 Effect on morfogeny and evolution
See also 612.605

.81 Peripheral nervous system Nerv fibers

.811 **Distinction between sensory and motor nervs**
3 Ganglions of sensory nervs
4 Influence of sensibility on movement and of movement on sensibility

.812 **Recurrent sensibility**

.813 **Electric phenomena of nervs and muscles**
Muscle-nerv experiments as indicativ of nervous process
For muscle phenomena see 612.743
2 Negativ variations
3 Electrotonus

.814 **Chemic and thermic phenomena of nervous stimulation**
For stimulation of nerv centers see 612.8222

.815 **Physiologic morfology of nervous stimulation**
1 Sensory terminations
2 Motor "

.816 **Irritability of nervs and muscles**
Nerv-muscle or nerv-gland physiology
1 Action of electricity
2 Theories of nerv waves
3 Nervous conductibility
4 Effect of blood on nervs Anemia
5 Rapidity of nerv waves
6 Nerv fatigue
7 Action of chemic substances on nervous irritability

.817 **Effect of nervs on muscles and glands**
1 Chemic substances Curare poisons
2 Voluntary contraction
3 Tonicity Atrofy of muscles after cutting nervs, etc.
See also 612.7465

.818 **Trofic nervs**
5 Degeneration, regeneration and cicatrization
1 Degeneration 2 Regeneration 3 Cicatrization

612.819 **Special nervs**
Whenever possible class according to function rather than according to a particular nerv, classing here only special nerv physiology
1 1st pair: olfactory
2 2d pair: optic
See also 612.843
3 3d pair: motoroculi or oculomoto
31 **Innervation of iris**
See also 612.8422
32 **Innervation of eyelids**
See also 612.847
33 **Innervation of eye muscles**
4 4th pair: trochlear or pathetic
5 5th " : trigeminal
52 **Sensory action**
53 **Trofic action**
6 6th pair: external oculomoto or abducent
7 7th " : facial
71 **Effect on facial muscles**
73 " " **respiration**
74 " " **hearing**
75 " " **deglutition and taste**
77 " " **salivation** **Chorda tympani**
See also 612.31387
78 **Pathology** **Facial paralysis**
8 8th pair: auditory
See also 612.8585
9 9th pair: glossopharyngeal
91 10th " : pneumogastric or vagus
911 **Effect on hart and circulation**
See also 612.1781
912 **Effect on respiration**
See also 612.287
913 **Effect on digestiv organs**
See also 612.328, 612.338, 612.348, 612.358, 612.368
915 **Effect on kidneys and other glands**
See also 612.4
917 **Effect on voice production**
See also 612.7822
918 **Section of vagus and pneumogastric**
92 11th pair: spinal accessory
921 **Anastomosis with vagus**
922 **Innervation of respiratory organs**
See also 612.28
923 **Innervation of vocal organs**
See also 612.7893
93 12th pair: hypoglossal
94 Spinal nervs in particular
941 **Phrenic nerv**

612.82 Nervous centers Brain

.821 Physiologic psychology

Usually better clast in 130 Mind and body

1 Time of reaction to stimulation Psychometry

2 Attention Memory Association Imagination

3 Instinct Intelligence Emotions Sensibility

31 Comparativ psychology

311 Nonautomatic actions of animals Anticlisis

312 Automatic " " "

For physiologic aspect sec 612.829

313 Instincts of animals Behavior See also 591.51

33 Emotions Sensibility

34 Inhibition of movement Will Habit Impulse

35 Associated movements

4 Action of poisons on intelligence

See also 613.8 Hygiene of nervous system

" " 615.9 Toxicology

41 Alkaloids

42 Nonalkaloid anesthetics

See also Therapeutics, 615.96 Cerebral poisons

44 Alcohol

See also Therapeutics, 615.964 Alcohol as cerebral poison

Pathology 616.861 Alcoholism

5 Effect of disease on intelligence

6 Psychic reflexes

7 Sleep Hypnotism

See also 135 Sleep, Dreams

71 Hypnotism See also 134 Mesmerism, Hypnotism

73 Theories of sleep

74 Cerebral circulation in sleep

75 Chemic phenomena of organism in sleep

76 Dreams

8 Sense in general and theories of perception

88 Psychophysical laws

89 Sensory delusions

For optic illusions see also 612.84374

.822 Nerv cells and nerv centers

1 Chemistry of nervous tissue

Metabolism in nervs

2 Chemic phenomena of nervous excitation

For stimulation of nerv fibers see 612.814

3 Electromotiv phenomena of nervous excitation

4 Thermic " " " "

5 Physiologic morfology " " "

53 Effects of fatigue

54 " " poisons

56 Degeneration and regeneration of centers

6 Effects of removal and experimental, pathologic or teratologic lesion of nerv centers

61 Movement in a circle (motus circularis, manège)

7 Decapitation

8 Action of central nervous system on chemic phenomena of organism

See also 612.01538, 612.8012

81 Effect of chemic changes on centers

612.823 Weight and general morfology of brain

5 Conduction in centers

.824 Cerebral circulation

1 Neurolymph, neurolympha or cerebrospinal fluid Meninges Choroid plexus

2 Brain movements

3 Cerebral vasomotors

4 " anemia

5 Pressure on nerv centers

55 Compression and concussion of brain Abnormal pressure

6 Temperature of blood in nerv centers

Effect of abnormal pressure

.825 Cerebral convolutions (cortex)

1 Cortical excitability

2 Psychomotiv centers Localizations

23 Inhibitory actions

See also 612.8338

24 Localization in man

249 Speech Aphasia

See also 612.7893

25 Localization in animals

26 Topografy of localizations

261 Frontal lobe

262 Occipital "

263 Parietal "

264 Temporal "

265 Central "

266 Olfactory "

3 Cortical epilepsy

See also 616.853

5 Sensory functions of convolutions

Convolutions as seat of senses

54 Sight

55 Hearing

56 Smell

57 Taste

58 Muscular sense

See also 612.885

59 Touch

See also 612.88

8 Intellectual functions

Only for physiology of these functions

.826 Cerebral ganglions, commissures, etc.

1 Optostriate body and callosum

Or optic thalami, striatum and callosum

2 Conduction in the brain

See also 612.8235

3 Crura or cerebral peduncles Epiphysis Infundibulum

5 Quadrigeminum Optic lobes

7 Cerebellar peduncles or prepeduncles

8 Pons

612.827 **Cerebellum**

.828 **Medulla oblongata or postoblongata**

.829 **Special physiology of central nervous system of invertebrates**

See also 612.8226

1 Regulating effect of ganglia Circular movements (manège)

2 Chain of ganglions Network of nervs, or rete nervosum

3 Reflex movement

Locomotion in respect to physiology of nervous system

31 Reflexes proper

32 Rhythm Refractory period

33 Tonicity Tonic reflex

34 Coordination

.83 Spinal cord or myel

.831 **Conduction in the cord**

See also 612.8235

.832 **Excitability of cord**

.833 **Reflex action**

Subdivide like 612; e. g. 612.83317 Cardiac reflexes
612.83362 Uterin "
612.8337 Limb reflexes; knee jerk

8 Action of superior nerv centers on reflexes

9 Other phenomena of reflex action

91 **Rapidity of reflexes**

92 **Pathology**

93 **Effect of anemia**

94 **Action of poisons on reflexes**

95 **Rhythm in general**

951 Refractory period

96 **Coordination**

97 **Other phenomena**

e. g. reflexes according to nature of impulse: fatigue, etc.

.834 **Cord as center of innervation**

.835 **Degeneration and regeneration of cord Atrofies**

.84 Physiologic optics Sight

.841 **Fibrous tunics of eye**

1 Cornea Conjunctiva Anterior chamber

5 Sclera

.842 **Vascular tunics Iris Choroid Ciliary body**

1 Iris accommodation

See also 612.844 for general papers on accommodation

11 **Pupillometers**

2 Action of nervs and nerv centers on pupil

3 Effects of light

4 Action of chemic substances on iris Atropin

5 Choroid Eye pigments

6 Ocular circulation Intraocular pressure

61 **Ophthalmometers**

612.843 **Optic nerv Retina**

1 Physiologic morfology Retinal purple

12 **Ophthalmoscope**

13 **Retinal circulation**

14 " **purple**

15 **Physiologic morfology of retina**

2 Irradiation

3 Color sense Chromatic sensibility

31 **Color sight**

Power to distinguish colors

For color blindness see 612.8455

32 **Sensitivness to color**

For pathology of chromatic sensibility see 612.8455

34 **Mixture of colors**

35 **Contrast of colors**

4 Entoptic phenomena

5 Persistence of retinal impressions

6 Field of vision Visual acuteness and sensibility

61 **Photometry**

Photometric technic

62 **Field of vision**

63 **Visual acuteness and sensibility**

7 Conduction in the brain Perception

71 **Histology of fibrillae Center of sight**

72 **Optic perceptions Localization of image in space**

721 Binocular perception Stereoscopy Perception of distance, size and form

Perception of differences in hight of surface For movement see 612.8462

73 **Impression of color suggested by sound, auditus coloratus**

74 **Optic illusions**

75 **Observations on those born blind**

78 **Degenerations of optic nerv and fibrillae**

.844 **Refractory apparatus Ocular refraction**

See also 612.8421

1 Crystallin lens

4 Aqueous humor

7 Vitreous humor

.845 **Functional disorders or pathology of sight**

See also 617.75

1 Myopia

2 Hypermetropia

3 Astigmatism

4 Presbyopia

5 Daltonism

6 Hemeralopia

612.846 **Movements of eye**
2 Binocular vision
For perception see 612.843721
3 Action of 3d cranial or oculomoto nerv
4 " " 4th " or trochlear nerv
6 " " 6th " or abducent nerv
8 Strabismus Diplopia
.847 **Palpebral and lacrimal apparatus**
.85 Hearing
.851 **External ear: functions**
.854 **Middle ear**
.855 Tympanic membrane or drumhed Tympanum
.856 Eustachian tube
.857 Bones
.858 **Internal ear**
1 Conduction of sound in internal ear
2 Utricle Saccule
3 Semicircular canals
See also 612.8863 and 616.81982 Vertigo
4 Cochlea Corti's organ or fibers Spiral organ
5 Acoustic nerv
6 Endolymph
7 Acoustic perception Conduction of acoustic excitation in the brain
71 **Auditory acuteness**
72 **Auditory center in brain**
See also 612.82555
73 **Subjectiv sensations**
74 **Musical physiology and psychology**
Distinction of tones and quality or tone color (timbre)
75 **Binaural hearing**
751 Localization of sound in space Estimation and effect of distance
76 **Sensibility of living beings to sound and vibrations Otocysts**
8 Auditory reflexes
.86 Smell
See also 612.82556 Seat of smell
.357 **Perceptions Conduction in the brain**
.87 Taste
.875 **Function of lingual nerv**
See also 612.8195
.877 **Function of chorda tympani**
See also 612.81977
.879 **Function of glossopharyngeal nerv**
See also 612.8199

612.88 Touch Tactil sense Equilibrium
.881 **Notion of space**
.882 **Sense of temperature**
.883 **Sense of pressure**
Including all related phenomena; e. g. tickling
1 Esthesiometers
.884 **Sensibility to pain**
.885 **Muscular sense Power sense**
.886 **Sense of equilibrium**
1 Sense of direction and orientation
2 Seasickness
3 Vertigo
See also 612.8583
9 Function of special organs
Function of lateral line of fishes and other special organs of lower animals
.887 **Anesthesia, hyperesthesia, synesthesia**
.89 Sympathetic nervous system
.8903 Trofic action
.8905 Reflex phenomena
.891 **Cervical ganglions and plexus**
.892 **Thoracic " " "**
.893 **Abdominal " " "**
.896 **Action on eyes; iris**
See also 612.8422
.897 **Action on hart**
See also 612.1782
.898 **Action on digestiv tract; alimentary canal**
See also 612.3 and special subdivisions
.899 **Effect on blood vessels**
See also 612.18

613 Personal Hygiene.

Care of Health; Prophylaxis; Individual Health; Laws of Health.
.02, Compends; .03, Dictionaries, Cyclopedias; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Sanitary Appliances; .09, History, Description, Reports, etc., divided like 930–999.

.1 Air and Light.

For Air Analysis, see 543.7; Air Pollution, 614.7; Ventilation, 628.8.

.11 Climate. Acclimation. See 551.5, Meteorology; 615.834, Therapeutics; 614.42, Geographical distribution of disease.

.12 Health Resorts. Mountain. Sea-shore.
Regions exempt from special diseases.

.13 Seasons. Time of Day.

.14 Malaria. Moisture. Ground Air. See Public Health, 614.775, 614.773, and 614.772.

.15 Purification of Air.

.16 Special Influences. Ozone, Electricity, etc.

.17 Quantity of Air Necessary.

.18 Temperature. See also 536.5, Heat; 551.52, Meteorology.

.19 Sunlight.

.2 Food. Dietetics.

For Food Analysis, see 543.1; Adulterations, 614.31; Digestion and Nutrition, 612.3.

.21 Dietaries.
Including food for special classes of people; literary men, soldiers, etc.

.22 Food for Infants.

.23 Food for the Sick.
Including means for giving nutrition, baths, enemeta, forced alimentation, etc.

.24 Fasting. Famine. Starvation.

.25 Excess of Food.

.26 Vegetable Food.

.27 Fruits.

.28 Animal Food. Meats.

.29 Fish, Oysters, etc.

.3 Beverages.

For alcoholic beverages, see 613.81 and 178, Temperance Ethics; Inspection of beverages, 614.34.

.31 Water as a Beverage.

.32 Impurities in Water and Ice. See also 628.16, Water supply of towns.

.33 Microscopical Analysis. For Chemical Analysis, see 543.3.

.34 Biological Analysis.

.35 Purification. Filtration, Boiling, Chemical, etc. See also 628.16, Water Supply.

.36 Cold Drinks.

.37 Hot Drinks. Tea, Coffee, etc. See also 614.347, Adulterations.

.38 Mineral Waters, Carbonated Waters, etc. See also 614.348, Adulterations; 615.79, Therapeutics.

.39 Other Beverages.

613.4 Cleanliness of Body. Clothing.

See also 646, Clothing, Toilet, etc.; 391, Customs, Care of Person, Bathing, Toilet. For Therapeutic baths, electric, sulphur, etc., see 615.67.

.41 Baths.

.42 Warm.

.43 Cold. For Swimming, see 796.

.44 Douche or Shower.

.45 Sea. Salt.

.46 Hot Air. Turkish. Russian. Roman, etc.

.47 Public.

.48 Clothing.
1, Material, wool, cotton, etc.
2, Quantity.
3, Cleanliness.
4, Pressure. Corsets, garters, tight boots, support from hips, etc.

.49 Care of special parts of body.

.5 Human Habitation and Resort.

For Heating, see 697; Ventilation, 628.8; House drainage, 628.6; Sanitation of towns, 628.4; Industrial sanitation, 628.5.
These subjects, partly Public and partly Private Hygiene, are for convenience grouped together here.

.51 Homes.

.52 Hotels.

.53 Tenements.

.54 Schools. Colleges. See School hygiene, 371.7.

.55 Churches, Theaters, Halls, etc.

.56 Hospitals. Asylums.

.57 Prisons. Reformatories.

.58

.59 House Furnishing.
1, Bed and Bedding.
2, Curtains. Tapestries.
3, Carpets. Rugs. Floors.
4, Wall Paper.
9, House Cleaning.

.6 Hygiene of Employment.

For Labor of children, see 331.3; Mining dangers and accidents, 622.8; see also Laboring classes, 331.8; Industrial sanitation, 628.5; Nuisances, 614.7.

.61 Over-hours. Over-work.

Occupations made Injurious.

.62 By Inhalation of Vapors and Gases.
Bleachers, match-makers, lard refiners, etc.

.63 By Inhalation of Dust or by Absorption.
Grinders, stone-cutters, millers, wool operatives, hair pickers, type founders, grocers, etc.

.64 By Elevated, Low, or Variable Temperature.
Bakers, forgemen, mariners, fishermen, farmers, laborers, etc.

.65 By Over-use of certain Organs. By Constrained Attitude and Sedentary Life.
Engravers, public speakers, copyists, printers, salesmen, clerks, literary men, etc. See also Mental hygiene, 131.

.66 By Accidents. See Public health, 614.8, Protection from accidents.
Machinists, quarrymen, caisson-workers, manufacturers of explosives, etc.

.67 Military Hygiene. Barracks, Camp and Tent Life.

.68 Naval Hygiene. Ship Life.

.69 Hygiene of Travel and Exploration.

613.7 **Hygiene of Recreation and Sleep.**

.71 Gymnastics. See also 371.73, School Hygiene, Care of Body.
For Curative gymnastics, see 615.82, Massage.

.72 Athletics and other Muscular Exercise.
See also 796, Out-door sports.

.73 Training and Overstrain. See also 371.75, Championship games.

.74 Amusement or Play.
See also 796, Out-door sports, and 371.74, Recreations.

.75 Parks.
Some subjects more properly placed in Public Health, are grouped here by attraction.

.76 Vacations. See also 371.23, School Vacations.

.77 Holidays. See also 371.23, School Holidays.

.78

.79 Rest and Sleep. Late Hours. See 613.86, Insomnia.

.8 **Hygiene of Nervous System.**
Including the action of Stimulants and Narcotics. See also 615.78, Drugs acting on Nervous System; 615.95, Neurotic Poisons.
For Mental overwork, see 131, Mental Hygiene. See also 178, Temperance.

.81 Alcohol. See also Temperance, 178; Beverages, 613.3; Inspection of Beverages, 614.34.

.82 Opium and Hashish. See also 178.8.

.83 Chloral and Caffeine. See also 178.8.

.84 Tobacco. See also 178.7.

.85 Other Narcotics.

.86 Insomnia. See also 613.79, Rest and Sleep.

.87 Morbid Habits. Bad Social Customs. See also Social Ethics, 177.

.88 Luxury. Privation.

.89 Celibacy. Monogamy. Polygamy.
See also Polygamy and Monogamy, 173.2; Sexual Ethics, 176; Celibacy of Clergy, 254; Asceticism, 248.

.9 **Hygiene of Offspring. Heredity.**
See also Heredity, 575.1.

.91 Congenital Defects of Body.
See also Monstrosities, 573.9; and Orthopædic Surgery, 617.3.

.92 Inherited Mental Disability.
See also Mental heredity, 136.3; Mental derangements, 132; and Mental physiology and hygiene, 131.

.93 Transmitted Disease.
See also special diseases in 616.

.94 Stirpiculture.

614 Public Health.

Public Hygiene. Public Sanitation. State Medicine. Preventive Medicine. See also 628, Sanitary Engineering; 352.4, Boards of Health.

.02, Compends; .03, Dictionaries, Cyclopædias; .04, Essays; .05, Periodicals; .06, Societies, Conventions; .07, Education; .08, Sanitary Appliances, Exhibitions; .09, History, Description, Legislation, Reports, etc., divided like 930–999, e.g. 614.0942, Public Health in England.

.1 **Registration and Vital Statistics.** See 312, Population.

.11 Births and Birth-rates.

.12 Deaths and Death-rates.
Divided geographically like 930–999, e.g. Death-rate in England, 614.1242.

.13 Mortality at Different Ages.
For Life Insurance, Life Tables, Biometry, etc., see Life Insurance, 368.3, and Life Contingencies, 519.5; Longevity, 612.68.

.131 Still-births.

.132 Infant Mortality.

.133 Mortality in Childhood.

.134 " " Adult Life.

.135 " " Old Age.

.14 Mortality of Sexes, Races, etc.

.141 " " the Sexes.

.142 " " Males.

.143 " " Females.

.144 " " Races, Colored, White, Indian, etc.

.145 " " City and Country.

.15 " " Different Occupations. See also 613.6.

.16 " from Special Diseases. Causes of Death.

.17 Marriage.

.18 Divorce. See also 173.1, Family Ethics.

.2 **State Control of Medicine.**

.21 Medical Education and Degrees. See 610.7; 378.2, Academic Degrees.

.22 Anatomy and Vivisection Laws. See 179.4, Ethics.

.23 Expert Testimony and other Medico-Legal Relations. See 340.6, Medical Jurisprudence.

.24 Registration of Physicians, Dentists, Pharmacists, etc. License to Practice.

.25 Regulation of Medical Practice. See 174.2, Professional Ethics, Physicians.

.26 Quackery and Malpractice.

.27 Nostrums and Patent Medicines. See also 614.353, Adulterations.

.28 Sale of Poisons. See 615.9, Toxicology.

.29 Medical Police.

.3 **Adulterations. Inspection of Articles Liable to Affect Public Health.** Public analysts. State laboratories. For chemical analysis see 543.

.31 Inspection of Food. For chemical analysis see 543.1; Hygiene, 613.2.

.311 Sugars. Syrups. Confectionery.

.312 Cereals. Starches. Bread.

.313 Lards. Fats. Oils. See 614.325–6, Butter, Oleomargarine.

.314 Spices. Condiments.

.315 Yeast. Baking Powders. Cream of Tartar.

.316 Vegetables. Fruits. (Fresh.)

.317 Meats. Fish. (Fresh.)

.318 Canned or Preserved Food. Vegetables. Fruits.

.319 Meat. Fish. Oysters. (Preserved.)

.32 Milk and Milk Products.

.321 Milk Analysis. See also 543.2, chemistry.

.322 Milk of Known Purity.

.323 Milk as Sold to Consumer.

.324 Cream. Skimmed Milk. Condensed Milk. Buttermilk. Kumiss.

614.325 Butter and its Imitations.
.326 Oleomargarine.
.327 Cheese and its Imitations.
.33 Other Articles of Food.
.34 Inspection of Beverages. For chemical analysis see 543.1; Hygiene, 613.3.
.341 Fermented.
.342 Wine.
.343 Brewed.
.344 Beer.
.345 Distilled.
.346 Fruit Drinks. Lemonade, Shrub, etc.
.347 Tea. Coffee. Chocolate. Cocoa. See also 613.37, Hygiene.
.348 Mineral Waters. Soda Water. See also 613.38, Hygiene: 615.79, Therapeutics.
.349 Mixed Drinks.
.35 Inspection of Drugs. For chemical analysis see 543.4.
.351 Officinal or Pharmacopœial Drugs.
.352 Non-officinal Drugs.
.353 Empirical or Patent Medicines. See also 614.27, State control.
.354 Cosmetics.
.355 Poisonous Cosmetics.
.36 Inspection of Tobacco.
.37 Inspection of Pigments, Wall and other Papers, Textile Fabrics, Toys, etc.

.4 Contagious and Infectious Diseases. General.

.41 Causes and Origin. See 589.95, Bacteria, Microbes; 616.01, Germ theory of disease.
.42 Geographical Distribution. Climatology.
.43 Modes of Propagation and Communication.
.44 Prevention and Restriction. See Ambulances, 614.882.
.45 Isolation, Lazarettos, etc.
.46 Quarantine, etc.
.461 Maritime Quarantine.
.462 Inland "
.463 Control of Rags, etc.
.47 Protective Inoculation.
.471 Against Small-pox. See also 616.912, Pathology.
.472 Variolation.
.473 Vaccination.
.1, Bovine Vaccination; .2, Humanized Vaccination; .3, Vaccinal Syphilis; .4, Re-vaccination; .5, Vaccinisation; .6, Re-vaccinisation; .7, Retro-vaccination; .8, Compulsory Vaccination; .9, Optional Vaccination.
.474 Anti-vaccination.
.475 Against Cholera. See also 616.932, Pathology.
.476 " Yellow Fever. See also 616.928, Pathology.
.477 " Hydrophobia. Pasteurism. See also 616.953, Pathology.
.48 Disinfection. Houses, Clothing, Rags, Workshops, Cars, Ships, Camps, Air, Soil, Persons, Sewers, Vaults, Excreta. Dead, see Embalming, etc., 614.64.
.481 Fumigating and other Apparatus. 1, Stationary; 2, Portable.
.482 Disinfectants. Antiseptics. Deodorizers.
Treated with reference to Public Health. See also Materia Medica 615.777 & 615.778.
.483 Heat.
.484 Chemical Disinfectants
.485 Carbolic.
.486 Salicylic.
.487 Chlorides.
.488 Copperas.
.489
.49 Epidemics. Plagues.

614.5 Contagious and Infectious Diseases. Special.

These heads are for Public Health discussions only. For treatment, etc., see Pathology, 616.

.51 Filth Diseases.
.511 Typhoid or Enteric Fever.
.512 Diphtheria.
.513 Diarrhœal Diseases.
.514 Cholera.
.515 Cholera-infantum.
.516 Dysentery.
.517 Diarrhœa.
.52 Exanthemata.
.521 Small-pox.
.522 Scarlet Fever.
.523 Measles.
.524 Rötheln.
.525 Chicken-pox.
.526 Typhus.
.53 Malarial Fevers.
.531 Intermittent Fever.
.532 Remittent Fever.
.54 Other Contagious and Infectious Diseases.
.541 Yellow Fever.
.542 Phthisis.
.543 Whooping-cough.
.544 Mumps.
.545 Puerperal Fever. See also 618.
.546 Leprosy.
.547 Syphilis.
.548 Gonorrhea.
.55 Parasitic Diseases.
.56 Diseases Communicated from Lower Animals.
.561 Anthrax. Charbon.
.562 Trichiniasis.
.563 Hydrophobia.
.564 Glanders.

.6 Disposal of the Dead.

See 393, Customs. Treatment of the dead.

.61 Burial.
.611 Earth-burial.
.612 Tomb-burial.
.613 Burials in Churches. Intra-mural.
.614 Use of Perishable Coffins.
.62 Cremation. Crematories.
.63 Transportation of the Dead.
.64 Embalming and Disinfection of the Dead. Use of Ice.
See 614.48, Disinfection; 615.777, Disinfectants.
.65 Effect of Cemeteries on Health.
.651 By Water Pollution.
652 " Air "

614.7 Hygiene of the Air and Ground. Nuisances.

See 613.1, Air, Hygiene; 613.6, Hygiene of employment; 628.5, Industrial sanitation.

.71 Air Pollution by Dust and Smoke.
.72 Air Pollution by Noxious Gases, Mineral Trades, Chemical Works.
.721 Carbon Compounds.
.722 Carbonic Oxid, Carbonic Acid, Carburetted Hydrogen.
.723 Illuminating Gases. Gas Works.
.724 Mineral Oil Refining.
.725 Sulfur Compounds.
.726 Chlorin "
.727 Nitrogen "
.728 Phosphorus "
.729 Other.
.73 Air Pollution by Vegetable Trades.
.731 Brewing.
.732 Distilling.
.733 Vinegar Making.
.734 Sugar Refining.
.735 Charcoal Burning.
.736 Varnish Making.
.74 Air Pollution by Animal Trades.
.741 Slaughter Houses. Abattoirs. Fish.
.742 Rendering Works. Bone-boiling Tripe and Gut Cleaning.
.743 Pork Packing. Lard Refining.
.744 Soap Making.
.745 Tanning.
.746 Glue Making.
.747 Lampblack.
.748 Commercial Fertilizers.
.75 Storage and Handling of Noxious and Offensive Materials.
.76 Other Air Pollutions. See 628, Sanitary engineering.
.761 Stables. Stable Manure.
.762 Hog Styes.
.763 Offal. Dead and Discased Animals and Fish.
.764 Vaults. Cess-pools. Water Closets, Privies, Urinals, Night-soil.
.765 Sewers and Sewer Outlets. Sewer Gas.
.77 Conditions of Soil as Affecting Health. Topography. Sanitary Surveys.
.771 Analysis of Soils. See 543.7, Chemistry.
.772 Soil Moisture. Hygiene of Natural Water Courses and of Marshes. See 613.14, Hygiene.
.773 Ground Atmosphere. See 613.14, Hygiene.
.774 Solid Constituents of Soil.
.775 Malarious Soils. See 613.14, Hygiene.
.776 Recovery of Soils from Pollution.
.78 Air and Ground in Towns.
.781 Laying Out of Towns and Streets.
.782 Subways and Elevated Ways. See 628.47, Sanitation of Towns.
.783 Parks. Air Spaces.
.784 Hight of Buildings and Proportion of Occupiable Area. See 614.85, Building laws.

614.8 Protection of Human Life from Accidents, Casualties, etc.

See 613.66 Hygiene of employment.

.81 Drowning.
.811 Rescue of the Drowning.
.812 Resuscitation of the Drowned. First Help.
.82 Suffocation.
By gases, in vaults, mines, etc.; see 622.8, Mining dangers. By illuminating gases.
.83 Explosions.
.831 Manufacture and Storage of Explosives and Combustibles. See 662, Chemical technology.
.832 Gunpowder.
.833 Dynamite, etc.
.834 Inspection of Kerosene, etc.
.835 " of Illuminating Gas.
.836 " of Electric Apparatus.
.837 " of Steam Boilers.
.84 Fires.
.841 Fire Prevention.
.842 " Detection.
.843 " Extinction. See 352.3, Fire Department.
.844 Automatic.
.845 Chemical Extinguishers.
.846 Fire Engines. Water Towers. See 621.68, Pumping engines
.847 " Escapes and Other Apparatus.
.848 " Exits, etc., from Public Buildings.
.85 Building Laws. Inspection of Buildings. See 614.784, Hight of Buildings.
.86 Protection of Travelers.
.861 Travel on Land.
.862 " on Highways.
.863 " Railroads.
.864 Travel on Water.
.865 Light-houses, Buoys, etc.
.866 Pilots.
.867 Boats, Life-preservers, etc.
.868 Rescue of Shipwrecked. Life-saving Service.
.87 Exposure to Cold. Hospice of St. Bernard.
.88 Aid to Injured.
.881 Ambulance.
.882 Ambulance for Contagious Diseases. See also 614.44
.883 "The Bed Wagon."

.9 Hygiene of Animals. Veterinary Sanitation.

.91 Infectious Diseases of Domestic Animals.
.92 Parasites of Animals. See 591.69, Economic zoölogy.
.93 Animal Diseases Communicable to Man. See also 614.56.
.94 Care and Housing of Animals.
.95 Feeding of Animals.
.96 Transportation of Animals.
.97 Methods of Slaughtering.
.971 Painless Extinction of Animal Life.

615 Materia Medica and Therapeutics.

.02, Compends; .05, Pharmaceutical Journals; .06, Pharmaceutical Societies; .07, Education, Schools of Pharmacy; .09, History.

.1 Materia Medica. Drugs.

For Examining boards, Laws, etc., see 614.24, Registration of Pharmacists. See also 614.35, Adulteration of drugs; 543.4, Chemical analysis.

.11 Pharmacopœias.
.12 Dispensatories.
.13 Formularies.
.14 Prescription writing. Posology.

.2 Inorganic Drugs.

Divided like 546. 615.218, Phosphorus; 615.258, Mercury; 615.272, Iron.

.3 Organic Drugs.

.31 Carbon Compounds. Divided chemically like 547.
.32 Vegetable Products. Divided botanically like 580.
.33 Vegetable Products. Divided by character.
1, Starches; 2, Sugar; 3, Glucosides; 4, Tannins; 5, Gums; 6, Drugs containing Alkaloids; 7, Bitters; 8, Organic Acids.
.34 Fixed Oils and Acids.
.35 Ferments. Diastase, Pepsin, etc.

.4 Practical Pharmacy.

.5 Therapeutics. Action of Medicines in General.

.51 Certainty of Medicines.
.52 Antagonism of Medicines.
.53 Law of Similars. Homœopathy.
Homœopathic works are classed with the subjects treated. This head is for Hahnemann's theory only.
.54 Influence of Age.
Infant therapeutics. Therapeutics of old age.
.55 Influence of Sex.
.56 Influence of Environment.
.57 Influence of Idiosyncracy.

.6 Administration of Medicines.

.61 By Stomach.
.62 " Rectum.
.63 " Subcutaneous tissue. Hypodermic medication.
.64 " Lungs. Inhalation. See also 612.385, Absorption.
.65 " Veins. Transfusion of blood.
.66 " Serous and Mucous Membranes. Peritoneum, Vagina, etc.
See also 612.387, Absorption.
.67 " Skin. Baths. See also 612.384, Absorption.

.7 Medicines grouped by Effects.

Treatises on specific drugs, Digitalis, Ergot, etc., are classed in the divisions of Materia Medica, 615.2-615.3; Iron, 615.272; Digitalis, 615.32381.

.71 Drugs acting on Circulatory System.
.711 Stimulants.
Alcohol, Ammonia, Digitalis, Coffee, Ergot.
.716 Depressants.
Aconite, Veratrum group, Nitrites.
.72 Drugs acting on Respiratory System.
.721 Expectorants.
.726 Errhines. Sneezing.

615.73 Drugs acting on Digestive System.
.731 Emetics.
Ipecac, Mustard, Metallic Salts, Apomorphin.
.732 Cathartics.
1, Laxatives; 2, Salines; 3, Purgatives; 4, Hydragogs; 5, Drastics; 6, Mercurials.
.733 Anthelmintics.
.734 Aids to Digestion.
1, Bitters, Tonics; 2, Ferments, Pepsin, Pancreatin, etc.; 3, Acids, Antacids.
.735 Demulcents, Emollients, etc.
Bismuth, Oxalate of Cerium, etc.
.74 Drugs acting on Glandular System.
.741 Sialagogs. (Saliva.)
.742 Cholagogs. (Bile.)
.743 Diaphoretics. (Perspiration.)
Pilocarpin, Heat, Exercise.
.75 Antipyretics. Antiperiodics.
Quinin, Salicylates, Coal-tar products, Kairin, Antipyrin, Antifebrin, Cold, Baths. See also 613.41, Baths.
.76 Drugs acting on Genito-Urinary System.
.761 Diuretics.
Water, Citrates, Acetates, Digitalis, Caffein, Copaiba.
.766 Uterines. Oxytocics.
Viburnum, Ergot, etc.
.77 External Agencies.
.771 Irritating.
.772 Astringents.
.773 Rubefacients.
.774 Epispastics. Blisters.
.775 Escharotics. Caustic potassa.
.776 Protective. Emollient.
Fats, Oils, Powders, Starch, Bismuth, Oxid of Zinc.
.777 Deodorants. Disinfectants. See 614.48, Disinfection; 614.64, Disinfection of dead.
.778 Antiseptics. Germicides.
.78 Drugs acting on Nervous System. See also 615.95, Neurotic Poisons.
.781 Anesthetics. Chloroform, Ether.
.782 Hypnotics. Chloral, Bromids.
.783 Analgesics. Opium.
.784 Mydriatics. Belladonna.
.785 Excitants. Strychnin.
.786 Depressants. Conium.
.788
.789 Other Drugs.
Camphor, Valerian, Asafetida.
.79 Mineral Waters. See also 613.38, Hygiene; 553.7, Occurrence in nature.

.8 Other Remedies.

.81 Mechanical Remedies.
.811 Blood-letting. Venesection. Cupping.
.812 Setons and Issues.
.813 Bandages. Ligatures.
.814 Acupuncture.
.815 Pneumatic Aspiration.
.82 Manipulation. Massage. Osteopathy.
See also 613.71, Gymnastics.

615.83 Imponderable Remedies.
.831 Light. Blue glass.
.832 Temperature. Heat. Cold.
.833 Moisture.
.834 Climate. See also 613.1, Hygiene.
.835 Altitude.
.836 Pneumatic Differentiation.
.837 Music.
.84 Electricity. Electro Therapeutics. See also 537.87 and 621.3915.
.85 Cures.
.851 Mind Cure. Influence of mind on body. See also 130, Mind and Body.
.852 Faith Cure. Christian science. See 265.8, Religion.
.853 Water Cure.
.854 Food Cures. Grapes, Milk, Beef, etc.
.855 Thomsonianism. Herb Doctors.
.856 Perkinism. Metallic Tractors.
.86
.87
.88 Patent Medicines.
.89 Ancient and Medieval Remedies.
Including those of modern uncivilized peoples.

.9 Toxicology. Poisons.

For detection of poisons, see 543.5; Sale of poisons, 614.28; Poisoned wounds, 617.148.

.91 Irritant Poisons.
.92 Mineral Irritants.
.921 Acid Poisons.
.922 Alkaline Poisons.
.923 Non-metallic Poisons.
.924 Phosphorus. See also 615.218, Drugs.
.925 Metallic Poisons.
.926 Arsenic. See also 615.219, Drugs.
.927 Mercury. See also 615.258, Drugs.
.928 Lead. See also 615.251, Drugs.
.929 Copper. See also 615.256, Drugs.
.93 Vegetable Irritants.
Hellebore, Aloes, Croton oil, etc.
.94 Animal Poisons.
Cantharides, Diseased meat, Ptomains, Tyrotoxicon, etc.
.95 Neurotic Poisons. See also 615.78, Drugs acting on nervous system.
.96 Cerebral or Narcotic Poisons. Carbonic oxid and acid.
.961 Opium.
.962 Prussic Acid.
.963 Cyanids.
.964 Alcohol.
.965 Ether.
.966 Chloroform.
.967 Chloral Hydrate.
.97 Spinal Poisons.
Nux vomica, Strychnia.
.98 Cerebrospinal Poisons.
Aconite, Belladonna, Lobelia.
.99 Cerebrocardiac Poisons.
Digitalis, Tobacco.

616 Pathology. Diseases. Treatment.

May be subdivided by a o like 610, if wished. Use 616.01 for Etiology, Germ theory, Classification of diseases. Use 616.07 for Diagnosis, Study of disease, and subdivide it as follows: 1, Pulse; 2, Tongue; 3, Eye, Skin, etc.; 4, Auscultation, Percussion; 5, Thermometry; 6, Chemistry, Urine analysis; 7, Microscopy; 8, Pathological anatomy; 9, Post-mortem examination.

.1 Diseases of Circulatory System.

.11 Membranes of the Heart.
.12 Heart. Angina Pectoris.
.13 Arteries.
.14 Veins.
.15 Blood.

.2 Diseases of Respiratory System.

01, Croup; 02, Hay Asthma, Hay Fever; 03, Influenza, Epidemic Catarrh; 04, Whooping Cough, see also 614.543; 05, Coryza, Catarrh; 06, Asphyxia.

.21 Nose. Naso-pharyngeal Space.
.22 Larynx.
.23 Trachæa. Bronchi. Bronchitis. Asthma.
.24 Lungs.
1 Pneumonia, Lung Fever, 2, Congestion; 3, Hemorrhage; 4, Abscess; 5, Gangrene; 6, Phthisis, Consumption, see also 614.542; 7, Embolism and Aneurism of Pulmonary Artery; 8, Emphysema; 9, Collapse.
.25 Pleura. Pleurisy.

.3 Diseases of the Digestive System.

For diseases of teeth see 617.6.

.31 Mouth. Tongue. Fauces.—Sore Throat. Quinsy. Mumps. See also 614.544.
.32 Pharynx. Œsophagus.
.33 Stomach.—Gastritis. Dyspepsia. Vomiting.
.34 Intestines.—Hernia. Diarrhea. Constipation. Colic.
.35 Rectum. Anus.—Piles.
.36 Liver. Gall-Bladder.—Jaundice.
.37 Pancreas.
.38 Peritoneum. Omentum. Mesentery.—Peritonitis.
.39 Dietetic Diseases.
Surfeit. Starvation. Scurvy. Dyspepsia.

.4 Diseases of the Lymphatic System.

.41 Spleen.
.42 Lymphatics. Thoracic Duct.
.43 Thymus.
.44 Thyroid Body. Goître.
.45 Suprarenal bodies.

.5 Dermatology. Skin Diseases.

.51 Inflammatory Affections.
Diffuse, papular, scaly. Nettlerash. Hives.
.52 Catarrhal, Vesicular, Pustular. Eczema. Shingles. See also 614.561.
.53 Disorders of Sebaceous Glands.
.54 Hypertrophies. Atrophies.
Corns. Warts. White hair. Baldness.
.55 New Formations. Pigmentary Changes.
Albinism. Freckles.
.56 Disorders of Sweat Glands.
.57 Parasitic Diseases. See 616.96, Parasitic Diseases.
.58 Other Skin Diseases.
Chilblain. Frostbite. Chaps.

616.6 **Diseases of Genito-Urinary System.**

For Diseases of women, see 618.

.61 Kidneys. Ducts.— Bright's Disease.
.62 Bladder.— Calculus.
.63 Urinary Disorders.— Diabetes.
.64 Male Urethra.
.65 Prostate.
.66 Penis.
.67 Scrotum.
.68 Spermatic cord. Testes.
.69 Functional Diseases of Male Generative Organs. Spermatorrhœa Impotence.

.7 **Diseases of the Organs of Locomotion.**

.71 Bones (except spine).
.72 Joints (except spine).
.73 Spine.— Curvature.
.74 Muscles.
.75 Tendons. Fasciæ.
.76 Bursæ. Sheaths of Tendons.
.77 Connective Tissue.

.8 **Diseases of Nervous System.**

.81 Diseases relating to Cerebro-Spinal Circulation. Apoplexy.
.82 Diseases relating to Cerebro-Spinal Meninges.
.83 Structural Diseases of Brain and Cord.
.84 Functional Diseases of Brain and Cord.

1, Vertigo; 2, Paralysis; 3, Neurasthenia; 4, Spinal Irritation; 5, Eclampsia, Convulsions.
For Insanity see 132.1.

.85 Neuroses.

1, Chorea, St Vitus's dance; 2, Hysteria, see 135 Somnambulism, 132.4 Catalepsy, 132.3 Hypochondria; 3, Epilepsy; 4, Tetanus, Lockjaw; 5, Aphasia; 6, Anesthesia, Hyperesthesia; 7, Megrim, Sick-headache.

.86 Neuroses due to special Poisons.

1, Alcoholism, see also Dipsomania, 132.7; 2, Metallic Tremor.

.87 Diseases of Nerves.— Neuralgia. Cramp.
.88 Diseases of Sympathetic System.

.9 **General Diseases.**

.91 Infectious Diseases.

1, Eruptive Fevers; 2, Small Pox, see also 614.471 and 614.521; 3, Cow Pox; 4, Chicken Pox, see also 614.525; 5, Measles, see also 614.523; 6, Rubeola, see also 614.524; 7, Scarlet Fever, Scarlatina, see also 614.522.

.92 Other Fevers. General Works on Fevers. See 612.57, Animal Heat.

1, Dengue, Break-bone Fever; 2, Typhus, see also 614.526; 3, Plague; 4, Relapsing Fever, Famine Fever; 5, Cerebro-spinal Fever; 6, Simple Continued Fever; 7, Enteric Fever, Typhoid Fever, see also 614.511; 8, Yellow Fever, see also 614.476 & 614.541.

.93 Diphtheria. Cholera. Malarial Fever.

1, Diphtheria, see also 614.512; 2, Asiatic Cholera, see also 614.475 and 614.514; 3, Sporadic Cholera; 4, Epidemic Diarrhœa, see also 614.517; 5, Dysentery, see also 614.516; 6, Malarial Fever, see also 614.53.

.94 Septic Diseases.

1, Phagedæna; 2, Erysipelas; 3, Pyæmia; 4, Septicæmia.

.95 Venereal Diseases. Hydrophobia, etc.

1, Syphilis, see also 614.547; 2, Gonorrhœa, see also 614.548; 3, Hydrophobia, see also 614.477 and 614.563; 4, Glanders, see also 614.564; 5, Horse pox; 6, Splenic fever.

616.96 Parasitic Diseases. See also 614.55.
.961 Animal Parasites. See 591.69, Economic Zoölogy; 614.92, Parasites of animals.
.962 Entozoa.
.963 Trematoda. Flukes.
.964 Cestoda. Tape-worms.
.965 Nematoda. Round worms, Thread worms, Trichinæ. See also 614.562.
.966 Acanthocephala. Thorn-headed worms.
.967 Insecta parasitica. Maggots.
.968 Ectozoa.

1, Insecta parasitica. Mosquitoes, Gnats, Bed bugs, Fleas, Lice; 5, Arachnida parasitica, Mites, Ticks; 8, Suctoria parasitica, Leeches.

.969 Vegetable Parasites. See 581.69, Economic Botany.
.97 Effects of Poisons. See 615.9, Toxicology.
.98 Effects of Injuries and Climate.

1, Presence of foreign bodies; 2, Mechanical injuries; 3, Excessive Exertion and Strain; 4, Excessive Venery; 5, Privation; 6, Exhaustion; 7, Chemical agents; 8, Climate.

.99 Other General Diseases.
.991 Rheumatism, Rheumatic Fever. Gout.
.992 Tumors.
.993 Non-malignant. Cysts. Wens.
.994 Malignant. Cancer.
.995 Tubercle.
.996 Scrofula. Rickets.
.997 Myxedema. Cretinism.
.998 Leprosy. See also 614.546.

617 Surgery

May be subdivided by 0 like 610, if wished.

.1 **Injuries.**

.11 Burns and Scalds.
.12 Lightning and Electric Shock.
.13 Contusions and Abrasions.
.14 Wounds.

1, Incised; 2, Contused; 3, Lacerated; 4, Punctured; 5, Gun-shot, see 617.99 Military surgery; 6, With lodgment of foreign bodies; 7, With complete separation of parts; 8, Poisoned, see 615.9 Toxicology.

.15 Fractures.
.16 Dislocations.
.17 Sprains.
.18 Asphyxia.

.2 **Results of Injuries.**

Constitutional effects and other complications. See also 616.94, Septic diseases.

.21 Shock.
.22 Inflammation.
.23 Abscess. Sinus. Fistula.
.24 Ulcers. Sores.
.25 Mortification. Gangrene.
.26 Traumatic Fever.
.27 Tetanus. See also 616.854.

617.3 Orthopedic surgery. Deformities.

For convenience the whole subject of deformities is classed here, though many of them have no surgical treatment. See also 573.8, Dwarfs and Giants; 573.9, Monstrosities; 613.91 Congenital defects.

.31 Incomplete Development or Growth.
Divided like 611, Anatomy.
.32 Incomplete Coalescence of Parts. Harelip.
.33 Coalescence of Parts.
.34 Extension of Commissure (Apparent Duplication).
.35 Coalescence of Fetuses. Siamese Twins.
.36 Supernumerary Parts or Organs. Extra Fingers or Toes.
.37 Disproportionate Growth of Parts.
.38 Transposition or Displacement of Parts.
.39 Congenital Distortions, including Talipes, Club Foot.

.4 Surgical Operations.

.41 Circulatory System.
.42 Respiratory System.
.43 Digestive System.
.44 Glandular and Lymphatic System.
.45
.46 Genito-Urinary System.
.47 Motor and Integumentary System.
.48 Nervous System.

.5 Regional Surgery.

.51 Head. Trephining.
.52 Face. Mouth. See 617.6, Dentistry; 617.7, Eye; 617.8, Ear.
.53 Neck. Throat.
.54 Chest.
.55 Abdomen.
.56 Pelvis.
.57 Upper Extremities. Artificial Arms, Hands, etc.
.58 Lower Extremities. Artificial Legs, Feet, etc.

.6 Dentistry. Diseases of Teeth.

.61 Diseases of Dental Pulp.
.62 Diseases of Dentine and Cementum.
.63 Diseases of Dental Periosteum.
.64 Malposition and Malformation of Teeth.
.65 Odontalgia. Toothache.
.66 Extraction of Teeth.
.67 Stopping Teeth.
.68 Transplanting Teeth.
.69 Artificial Teeth.

.7 Ophthalmic Surgery. Diseases of the Eye.

.71 Conjunctiva. Cornea. Sclerotic. Ophthalmia.
.72 Iris. Choroid. Ciliary Body.
.73 Optic Nerve. Retina.
.74 Lens and its Capsule. Vitreous Humor. Affections of the Globe. Cataract.
.75 Disorders of Vision.
Myopia, Shortsightedness, Astigmatism, Color-blindness.
.76 Muscular Apparatus. Lacrimal Apparatus.
Strabismus, Squint.
.77 Eyelids.
.78 Orbit and Neighboring Parts.
.79 Artificial Eyes.

617.8 Diseases of the Ear.

.81 Affections of External Ear.
.82 Auricle.
.83 Auditory Canal.
.84 Affections of Middle Ear.
.85 Membrana Tympani.
.86 Eustachian Tubes.
.87 Mastoid Cells.
.88 Affections of Internal Ear.
.89

.9 Operative Surgery.

See 615.781, Anesthetics.

.91 Armamentaria. Surgical Instruments.
.92 Orthopedic Appliances. Splints, Trusses, etc.
See 617.3, Orthopedic surgery.
.93 Surgical Dressings.
.94 Amputation. Resection.
.95 Plastic Surgery.
.96
.97
.98
.99 Military Surgery.

618 Diseases of Women and Children. Obstetrics.

.1 Gynecology. Diseases of Women.

.11 Ovary.
.12 Fallopian Tube.
.13 Periuterine Diseases.
.14 Uterus and Cervix.
.15 Vagina.
.16 Vulva.
.17 Functional and Symptomatic Disorders.
Diseases of Menstruation. Leucorrhea. Sterility.
.18
.19 Diseases of Breast.

.2 Obstetrics.

.21 Pregnancy. Physiology.

.22 Diagnosis. Signs of Pregnancy.
.23 Duration.
.24 Hygiene. Management.
.25 Multiple Pregnancy. Twins, etc.

.3 Pathology of Pregnancy.

Diseases of Pregnancy and their treatment.

.31 Ectopic Gestation. Extra-uterine Pregnancy.
.32 Pathology of Ovum.
.33 Death and Retention of Fetus.
.34 Pathology of Fetal Appendages.
.35 Decidua.
.36 Placenta.
.37 Amnion.
.38 Umbilical Cord.
.39 Abortion. Miscarriage. Stillbirth. Molar Pregnancy.
See 173.4, Infanticide; 340.6, Medical jurisprudence; 343, Criminal law.

618.4 **Parturition. Labor. Physiology.**

- .41 Mechanism of Labor.
- .42 Presentations. Positions.
- .43 Clinical Course and Phenomena.
- .44 Conduct of Normal Labor. Management.

.5 **Pathology of Labor.**

Abnormal Labor from Faults

- .51 of Powers. Anomalies of Expellent Forces.
- .52 of Passages. Mechanical Obstacles to Expulsion of **Fœtus.**
- .53 of Child. Abnormalities of Fœtus. See 617.3, Deformities. Complications.
- .54 Hemorrhage.
- .55 Rupture or Laceration of Genital Tract.
- .56 Retention of Placenta.
- .57 Inversion of Uterus.
- .58 Prolapsus Funis.
- .59 Other Complications.

.6 **Puerperal State. Physiology.**

Management, including care of child.

.7 **Pathology of Puerperal State. Puerperal Diseases.**

- .71 Diseases of Lactation. Milk Fever. Mastitis, etc.
- .72 Puerperal Fever. See 614.545, Public health.
- .73 Metritis. Peritonitis, see also 616.38. Cellulitis.
- .74 Septicæmia, see also 616.944. Pyæmia, see also 616.943.
- .75 Convulsions. See 616.845, Eclampsia.
- .76 Puerperal Mania. See 132.1, Insanity.
- .77 Phlebitis. Venous Thrombosis. Phlegmasia Dolens. See 616.14, Diseases of veins.
- .78 Other Puerperal Affections.
- .79 Sudden Death after Delivery.

.8 **Obstetric Operations.**

- .81 Application of Lever and Forceps.
- .82 Version.
- .83 Embryotomy.
- .84 Dilatation of Os and Cervix.
- .85 Symphyseotomy.
- .86 Cæsarian Section.
- .87 Removal of Placenta.
- .88 Induction of Labor. Removal of Ovum.
- .89 Intra-uterine Injections. Antiseptics in Midwifery.

.9 **Pædiatrics. Diseases of Children.**

619 Comparative Medicine. Veterinary.

- **.1** **Horses.**
- **.2** **Cattle.**
- **.3** **Sheep, Goats.**
- **.4** **Swine.**
- **.5** **Poultry.**
- **.6** **Birds.**
- **.7** **Dogs.**
- **.8** **Cats.**
- **.9** **Other.**

620 Engineering

See also 690 Bilding; 721 Architectural construction

SUMMARY

- 620.1 Applied mechanics Engineering materials
- **621 Mechanical engineering**
  - .1 Steam engineering
  - .2 Hydraulic engins or motors
  - .3 Electric engineering
  - .4 Air and gas engins and other motors
  - .5 Pneumatic machinery Refrigerating machines
  - .6 Blowing and pumping engins
  - .7 Mills Factories Engineering works
  - .8 Millwork Hoisting and conveying machinery
  - .9 Machine tools
- **622 Mining engineering**
- **623 Military and naval engineering**
  - .8 Naval architecture
- **624 Bridges and roofs**
- **625 Railroad and road engineering**
- **626 Canal engineering**
- **627 River, harbor and general hydraulic engineering**
- **628 Sanitary engineering**
- **629 Other engineering industries**

- .01 Statistics
- .02 Quantities and cost
- .03 Contracts and specifications
- .04 Designs and drawings
- .05 Executiv
- .06 Working and maintenance
- .07 Laws and regulations
- .08 Patents
- .09 Reports

.1 **Applied mechanics Engineering materials**

Class here general works on materials with reference to their fitness in engineering See also 691 Bilding materials

.11 Strength of materials General theory

General works considering various materials. For particular materials see 620.12–.19 Provision is made below for classing tests on 2 different bases: 1) by character of test, 2) by material tested. Class under material rather than under test when the two conflict. See also note under 620.112 For theory or mechanics of structures see 624; for theories of construction of bildings see 690.1

.111 General

This hed is left for specialists wishing to analyze general works or collect clippings and notes too limited for .11 yet not specific enough to be put with a particular test or material. Libraries are unlikely to need any general hed except 620.11

620.112 Tests Factors affecting strength
Kinds of tests. Directions for making various tests, laboratory manuals
See note to 620.11
1 General: influence of temperature, selection of test pieces, etc.
2 Corrosion Wethering Protection against deteriorating influences
3 Elastic limit tests: plasticity, fatigue, deformation
See also 620.11246 Repeated stress
4 Tension, compression, torsion, flexure, shearing
Class here combined tests as well as general works covering these tests
If wisht, subdivide farther as follows:
41 Tensil tests
42 Compression tests
43 Torsion "
44 Flexure (transverse) tests
45 Shearing tests
46 Repeated stress tests
5 Impact Repeated shock tests
Crystallization and formation of cleavage planes
6 Hardness tests
7 Special tests
Varying for different materials
8 Tests on special shapes and forms
82 Plates and structural shapes
Bars, rods, angles, beams: T, bulb, I, and channel beams
83 Colums, bilt colums Tubes, pipes, cylinders
84 Rollers Spheres, solid or hollow Ball bearings
85 Springs
86 Hooks Chains Hoops Rings
87 Rivets Bolts Screws Nails
Riveted joints of plates
88 Wire Wire rope Cables Hawsers
89 Other forms
9 Other tests
.12 Tests of timber See note to 620.11
.13 Stone Cement Concrete
.132 Stone
.135 Cement
.136 Concrete
.137 Reinforced concrete
.139 Other: artificial stone
.14 Brick, tile, etc.
For glass see 666.1 Manufacture of glass, 691.6 Glass as a bilding material. In engineering it is an accessory material not requiring a place under strength tests
.15 Masonry adhesivs
Cement, mortar, plaster of paris, etc. See also bilding materials 691.5 Lime, plaster, cement
.17 Iron and steel
.18 Other metals
.19 Other materials
.195 Mineral: asbestos, mineral wool
.196 Asphalt Tar
.197 Vegetable: paper, hemp, etc.
.198 Animal: hair, hide, bone, etc.
.199
.2 Compends Handbooks Kent, Trautwine
.3 Dictionaries, cyclopedias
.4 Essays
.5 Periodicals
.6 Societies
.7 Study and teaching Instruments
.8 Tables and calculations
.9 History of engineering

621 Mechanical engineering
May be subdivided like 620.0 and by form numbers

.1 Steam engineering
Subdivide like 620 and 620.0, but use 621.101 as below. Other generalities of steam engineering are in 621.11 and 621.18
.101 Applied thermodynamics
Theory and use of steam in steam engin General energy considerations
Steam economy
1 General
Expansion, entropy; extension of expansion approaching vacuum (condensers) superheating, cylinder condensation, jacketing, etc. For condensers, superheaters, etc. see 621.197
.11 Mechanism of steam engin Design of engin parts
.111 General
.112 Types of engins: structural
Reciprocating engins in general. Types specified below are all reciprocating, except 1 Primitiv and 9 Other
1 Primitiv
21 Single acting
22 Double acting
3 According to transmission of motion
32 Direct connected
33 Indirect: beam connected
4 According to position
42 Horizontal
44 Vertical
45 Oscillating
46 Inclined
5 According to terminal pressure
52 Condensing
In early period called 'low pressure'
53 Noncondensing
In early period called 'high pressure'
6 According to expansion
61 Single expansion
62 Compound
63 Double expansion: cross compound
64 " " tandem "
65 " " angle "
66 Triple expansion
67 Quadruple expansion
9 Other types
95 Steam turbins
Better class 621.165
96 Rotary engins
Better class 621.166
.12 Marine engins
For propulsion see 623.8 Naval architecture
.121 General
See also 621.11 and 621.18
.122 Types of marine engins
1 Primitiv
Inventions of Papin, Perier, Fulton, Stevens, etc
2 Beam and side lever engins
4 Horizontal, inclined, vertical engins
5 Oscillating
8 Launch engins
9 Other special engins
.123 Marine steam turbins
See also 621.165

621.13 Locomotivs

.131 Theory of the locomotiv

1 Adhesion Tractiv force Horsepower

2

3 Tests

.132 Types

Variations modifying tractiv force and speed, and affecting more than 1 class of mechanism. For variations in steam apparatus (oil burning locomotivs, etc.) see 621.133 and 621.134

1 Primitiv forms

2

3 Types according to distribution of wheelbase and load

Exprest by Whyte nomenclature for wheel combinations

5

6 Types according to purpose

62 Freight or goods engins Hog engin

63 Yard, switch or shunting engins

65 Passenger engins

67 Mountain "

68 Mining "

69 Other special locomotivs

8 Peculiar types

Combined 'engin and coach wagon'

9 Types in different countries

Subdivided like 940–999; e.g. English locomotivs 621.132942

.133 Locomotiv boilers Production of steam

Better clast in 621.18423, as boilers of locomotiv type serv many other purposes For boiler management see 621.193

1 Combustion Fuels Petroleum Fuel consumption

See also 621.18357

2 Grate and ashpit Firebox Stays

See also 621.1835

3 Shell and tubes

4 Smokebox and stack Spark arresters

See also 621.1838

5 Exhaust pipe

6 Dome

9 Miscellaneous fittings

Gage cocks, safety valvs, whistles, pumps, injectors, etc.

.134 Engin of the locomotiv

1 Driving mechanism Cylinders, pistons, rods

2 Steam distribution Valvs and valv gears

22 Special types of valvs and valv gear

3

4 Compound principle

Distribution in compound locomotivs

5 Lubrication of locomotiv

9 Other parts of locomotiv: throttle, etc.

.135 Running gear

.136 Tenders

1 Design, weight, brakes, etc.

2 Appliances

3 Taking water without stopping; track tanks; water scoops

.139 Miscellaneous parts

Cowcatcher or pilot, hedlight, whistle, bell, sandbox

621.14 Traction engins Road locomotivs

Selfpropelling engins for hauling over roads or ground, or doing other work by locomotion. For railway engins see 621.13. For stationary hauling engins see 621.162

Hauling may be accomplisht either by engins applying their power directly and moving with the load, i.e. locomotiv (621.13) over rails; or traction engins (621.14) over ground or roads; or by engins applying their power indirectly thru cables, etc. and standing in a fixt position either temporarily (621.15) or permanently (621.16)

.141 Theory General

.142

.143 Boilers

Better clast in 621.18423; 621.143 if used is limited to discussion of those suitable to traction engins

.144 Types Traction engins for special uses

.145 Compressing machines Steam rollers

.146 Agricultural: plows, reapers, etc.

.15 Portable engins

Engins that may be moved from place to place, but that remain in a fixt position when working. If selfpropelling, the selfpropulsion is incidental. For fire engins and other pumping engins see 621.64

.151 Theory General

.152 Types, structural etc.

.153 Boilers

Better clast in 621.18423. If used, limited to discussion of those suitable to portable engins

.154 Portable engins for special purposes

Hoisting, dredging, drilling, etc. See also 621.86 Hoisting and conveying machinery; 621.68 Fire engins; 627.7 Dredges

.156 Agricultural: threshers, etc.

.159 Semistationary engins Various types

.16 Stationary engins

Engins fixt in position; e.g. those running factory machinery, cables, elevators, etc. For management see 621.193. For boilers see 621.18424

.161 Theory and general

.162 Types by use: hauling, dredging, etc.

For pumps see 621.64. For types clast by engin mechanism see 621.164

.163 Stationary boilers

Better clast in 621.18424 with only reference here

.164 Types according to characteristics of engin mechanism or steam distribution

When mechanism and steam distribution conflict, class according to mechanism; e.g. compound releasing-gear engins 621.1644 rather than 621.1647. Each type may be subdivided like 621.11: e.g. vertical throttling engins 621.1642244

1 General

2 Throttling engins

3 Automatic shaft governor engins

4 Releasing gear (Corliss) engins Drop cutoff

5 Single acting engins: Westinghouse or Willans type

6 Simple engins

7 Compound engins, triple expansion, etc.

621.165 Steam turbins

See also 621.123 Marine steam turbins

1 **Theory**
11 Methods of calculation
12 Vanes and buckets
13 Guide vanes and nozles
14 Stresses in rotor or disc
15 Windage
2 **Types**
22 Velocity turbins
23 Pressure turbins
24 Combined velocity and pressure turbins
3 **Construction Details of design**
32 Vanes Buckets
33 Guide vanes Nozles
34 Rotor Discs
35 Valvs, governors, safety devices
36 Thrust balancing
37 Mass "
38 Casing, etc.
39 Bearings, etc.

.166 Rotary engins

.169

.18 Steam generation and transmission

Fuels, furnaces, boilers, piping, power plants
For steam heating see 697.5

.181 General

.182 Fuels Combustion

2 **Fuels for boiler heating**
For fuels in general and fuel analysis see 662.6
22 Solid fuels: coal, lignite, wood, sawdust, peat
23 Liquid fuels: tar, petroleum, alcohol
24 Gaseous fuels: gas from blast furnaces, coke ovens; natural as
25 Composit fuels: city refuse, coal dust, trash
3 **Fuel consumption**
Practical experiments with a single fuel
4 **Comparativ consumption**
Practical experiments with various fuels

183 Furnace Draft

1 **General**
Heating and grate surfaces
2 **Types of furnaces**
3
4
5 **Furnace parts and construction details**
52 Grates
53 Stationary grates
54 Shaking, dumping and step grates
55 Ashpits Furnace doors
57 Burners for liquid fuel
6 **Mechanical stokers**
62 With traveling grate
63 " rocking "
64 " step grate (Roney grate)
65 " plunger
66 " screw
7 **Other appliances**
77 Pulverized fuel appliances
78 Fuel and ash conveyers Ash removers
See also 621.86 Hoisting and conveying machinery
8 **Chimneys Stacks Draft appliances**
Smoke consumers. For smoke prevention see 621.1941 Firing
82 Natural draft Dampers Uptakes
84 Induced draft
85 Forced draft

621.184 Boilers

For boiler plants see 621.19

1 **General**
13 Boiler economy Tests Feedwater
2 **Types**
22 Marine
23 Locomotiv, traction, portable
24 Stationary
25 Firetube boilers (tubular)
252 Internally fired
253 Externally "
26 Water tube boilers (tubulous)
27 Flash generators Instantaneous vaporizing boilers
5 **Boiler construction Setting Parts**
52 Shell Heds Tubesheets Domes Drums
Riveted joints, staying and bracing
53 Tubes Ferules Rings
54 Casing
55 Inspection and cleaning parts: man and hand holes, cleanouts, covers
56 Setting and hanging
57 Foundations: masonry, flues, etc.
7 **Boiler accessories**
72 Water gages, floaters, gage glasses, warning whistles
73 Pressure gages, manometers, safety valvs
79 Other: air cocks and blowout valvs, zincs, steam collectors

.185 Steam transmission and distribution Piping

1 **General; laws of flow, condensation, friction**
2
3 **Connections; mains, auxiliary piping**
4 **Valvs**
Stop, safety, reducing Pressure regulators
5 **Drains and traps Receivers and distributing valvs**
6 **Covering Insulators**
Nonconductors for high, low and medium temperatures
7 **Joints and cements Expansion joints**
8 **Utilization of exhaust steam**
See also 697.5 Steam heating

.19 Steam boiler and power plants Central stations

See also bilding, 697.5 steam heating

.191 General

.192 Arrangement and housing of apparatus

5 Provision for enlargement

.193 Care and management of steam apparatus

.194 Boilers

1 **Firing**
2 **Feeding**
Put here general discussion of feeding and feedwater appliances. For separate description of appliances see 621.197
3 Treatment of feed water: purification, softening
4 Scale prevention Incrustation
7 **Inspection Hydraulic tests Rating**

.195 Engins: oiling, packing, adjusting

.196 Duration Wear

5 Corrosion

.197 Steam plant accessories Economic appurtenances

2 **Feedwater appliances**
Tanks, heaters, economizers, filters, purifiers, regulators
3 **Pumps Injectors Return traps**
4 **Separators**
5 **Superheaters**
6 **Condensers and cooling towers**
62 Surface condensers
63 Jet condensers
64 Cooling towers
67 Condenser accessories
7 **Instruments**
Indicators, tachometers, gages, dynamometers, thermometers, pyrometers, lubricators, etc.

621.2 Hydraulic engins or motors

Industrial use of water as motiv power, including machines run by water under pressure produced by accumulators and also constructions and appliances for distributing and regulating supply of water to motors
For hydraulic engineering (dam, breakwater, etc.) see 627; for pumps see 621.6; for reservoirs, aqueducts, etc. see 628.1; for theory of mechanics of liquids see 532

.21 Water wheels
Theory, classification, parts (e.g. paddles, vanes, buckets) water gates, culverts

.22 Overshot or bucket wheels Brest wheels

.221 Overshot wheels of low velocity

.222 Overshot wheels of high velocity

.223 Brest wheels Fairbairn wheels

.224 Sluice gate or Sagebien wheels

.23 Undershot or impulse wheels and floating wheels

.231 Ordinary undershot wheels

.232 Wheels with curvd vanes or buckets Pelton wheel

.233 Vertical impulse wheels

.234 Current suspension wheels

.235 Floating wheels

.24 Turbins
See also 621.165 Steam turbins

.241 General: parts (e. g. distributors, buckets, guide vanes) regulators

.242 Reaction or pressure turbins

.243 Outward flow
Early forms: Barker's mill

.244 Inward flow

.245 Downward flow

.247 Impulse or Girard turbins

.25 Water pressure engins Accumulators

.252 Hydraulic pumps

.253 Piping for high pressure

.254 Accumulators

.26 Hydraulic machinery and appliances Hydraulic presses
For theory see 532.81

.262 Funicular engins Hydraulic tackle

.263 Hoists Elevators Cranes
Class preferably in 621.86; i.e. purpose outweighs motiv power

.264 Special handling and lifting machinery for steel works, etc.

.266 Presses Forging and stamping machines

.267 Accessories: injection pumps

.269 Mining, tunneling and other hydraulic appliances
Hydraulic giant, Brandt's hydraulic gun

.27 Hydraulic rams
For theory see physics 532.83

.272 Lifting rams Montgolfier ram, Bolle ram, etc.

.273 Pumping rams Leblanc ram
See also 621.64 Pumps

.274 Compressing rams Sommelier ram

.29 Flood gates Dams Mill sluices Hed and tail races
Adaptation to hydraulic motors. For methods and principles of construction see 627.8 Hydraulic engineering

621.3 Electric engineering

001 Statistics; 002 Quantities and cost; 003 Contracts and specifications; 004 Designs and drawings; 005 Executiv; 006 Working and maintenance; 007 Laws and regulations; 008 Patents; 009 Reports
May also be subdivided for form with 0 like 620.1–.9

SUMMARY

621.31-7 Hevy current engineering
- .31 Generation of electricity
  - .311 General
  - .312 Central stations
  - .313 Dynamoelectric machinery
  - .314 Stationary induction apparatus
  - .315 Electrostatic apparatus
  - .316 Accessories and parts
  - .317 Control and central station wiring
  - .318 Manufacturing processes
- .32 Electric lighting
- .33 Electric traction
- .35 Voltaic cells and batteries
- .36
- .37 Electric mesurements and testing

.38 Weak current engineering
- .382 Telegrafy
- .384 Wireless communication
- .385 Telefony
- .39 Other applications of electricity

621.31–.37 Hevy current engineering

.31 Generation of electricity Dynamoelectric machinery Transformers

.311 General

.312 Central stations: metropolitan, rural
Divided by 001–009 like 621.3 with the following additions to 006:
006 Working and maintenance
- 4 Operation and running
- 5 Regulation and control
- 8 Testing
- 9 Repairs and renewal
  Administrativ point of view; a specific repair belongs with the part repaird

.31213 General central stations
Combined power, traction, light, etc. stations
- 132 Steam driven
- 133 Gas "
- 134 Hydraulic
- 135 Composit

2 Stations for lighting only
Divided by source of power like 621.31213

3 Stations for traction only
Divided like 621.31213

5 Storage battery pressure regulating equipment

6 Substations
- 63 Transformer substations
- 64 Converter "
- 65 Accumulator "

621.313 Dynamoelectric machinery

1 **General; construction, installation**

2 **Direct or continuous current machinery**

21 Theory

22 General types

23 Continuous-current generators

2 Series wound 3 Shunt wound 4 Compound wound

24 Continuous current motors

Subdivided like 621.31323 above

245 Constant speed motors

246 Multispeed motors

247 Adjustable speed motors

248 Varying " " (railway motors)

25 Continuous-current converters

26 Dynamotors and motordynamos

27 Compensators or balancers

28 Continuous-current boosters

29 Other

291 Acyclic or homopolar machines

3 **Alternating-current machinery**

32 General types of alternating current machinery

321 Single phase machinery

322 2 " "

323 3 " "

325 Other polyphase machinery

4 Synchronous machinery

41 Theory

42 General types

43 Alternating-current generators

44 Synchronous motors

5 Alternating-current converters

51 Theory

52 General types Description

53 Synchronous converters

54 Phase converters

55 Frequency converters

56 Double-current generators

57 Motor converters

6 Asynchronous machines

61 Theory

62

63 Induction generators

64 " . motors

65 Series alternating-current motors

66 Repulsion motors

67 Frequency converters

68 Phase converters

7 Rectifying apparatus

72 Mechanical rectifiers

73 Arc "

74 Electrolytic "

621.314 Stationary induction apparatus

1 **Theory**

2 **General types and description**

3 **Transformers**

31

32 Constant-current transformers

33 Constant-potential transformers

34 Phase-changing transformers

38 Meter transformers

4 Auto transformers

5 **Potential regulators**

51 Compensator potential regulators

52 Induction " "

53 Magneto " "

6 **Reactors or choke coils**

7 **Induction coils**

.315 Electrostatic apparatus: condensers

.316 Details of electric machinery Parts

Armatures, field cores, etc.

.317 Central station wiring Control devices and switchboards

For meters and mesuring instruments see 621.37

1 **General**

2 **Panels**

22 Generator panels

23 Motor "

24 Feeder "

25 Transformer "

26 Converter "

27 Lighting "

28 Accumulator "

3 **Switches**

31 General

32 Knife switches

33 Dial "

34 Plug "

35 Oil "

36 Circuit breakers

4 **Rheostats and control devices**

5 **Signal devices**

6

7 **Barriers and compartments**

8 **Station protectiv devices (fuzes, lightning arresters etc.)**

.318 Manufacturing processes

Processes peculiar to electric machinery and apparatus: e.g. **insulating**, varnishing, baking, armature stamps and dies

621.319 Transmission of electric energy

Limited to transmission of current from control to substations (stepdown transformers) and to questions common to all lines. For transmission systems for a special application see subject; e.g. traction lines 621.332

1 **General**

12 **Systems**

122 Direct or continuous current systems

Including 2 wire systems

123 3 wire (or Edison) and other

129 Other direct current systems

13 Alternating current systems

131 Single phase systems

132 2 phase (or quarter phase) systems

3 3 wire system

4 4 " "

133 3 phase systems

2 Delta or mesh connections

3 Star or Y connections

139 Other polyphase systems

15 Composit systems

Direct and alternating current combined

2 **Lines and conductors**

For local wiring see specific application; e.g. electric light wiring 621.328

21 General

Interaction of parallel lines, heat losses. For traction lines see 621.332; for interior wiring for electric light sce 621.328, for telegraf see 621.382, for telefones see 681.386-7

22 Overhed or aerial lines

222 Systems

223 Poles: foundations, guys, etc.

224 Cross arms Pins

225 Towers

23 Underground lines

232 Systems

233 Condits

234 Manholes

3 Cables and conductors Insulating materials

32 Uninsulated conductors Bare wire

33 Insulated " Wire and cable

34 Cables

37 Insulating materials

Leakage Influence of chemic composition

4 Insulators

8 **Protectiv devices**

82 Line lightning arresters

For protection of central stations see 621.3178

621.32 Electric lighting Illumination

Class here works limited to electric lighting, but more general than any of the subheds below. This number is for matter differentiating lighting from other branches of electric engineering, but not for subjects which lighting has in common with other branches. For generation and control of electricity (including central stations) see 621.31, for transmission and wiring see 621.319. for mesuring see 621.37

For theory of electric light see 537.83 Electric lighting

.321 General

.325 Arc lighting

Including systems and lamps

1 General: efficiency, cost, etc.

2 **Constant-current or series systems**

3 **Constant potential or parallel systems**

4-5 Arc lighting according to

4 Type of arc

If emphasis is on form of current, class under 621.3255 If there is conflict, prefer 621.3254

42 Open arc

421

422 " " direct current

423 " " alternating current

43 Inclosed arc

431

432 " " direct current

433 " " alternating current

5 Form of current

If emphasis is on type of arc class in 621.3254

52 Direct current

521

522 " " open arc

523 " " inclosed arc

53 Alternating current

531

532 " " open arc

533 " " inclosed arc

6 **Composit electrode arcs**

Flaming arcs. Carbid, Bremer magnetite, titanium oxid arcs

7 **Details Accessories**

Arc light carbons

8 **Applications**

For welding see physics 537.85, and metallurgy 669

" therapeutic applications see 615.84 and 621.3915

82 Searchlights

.326 Incandescent lighting

Including lamps and systems

1 General: efficiency, cost, etc.

2 **Systems (Edison 3 wire system)**

3 **Carbon filament lamps**

31 Metalized filaments

32 Other carbon filaments

4 **Metal filament lamps**

41 Platinum filaments

42 Tantalum "

43 Tungsten "

44 Osmium "

45 Other metal filaments

5 **Glowers of other materials**

53 Nernst lamps

.327 Incandescent vapor lighting and lamps Other electric lighting

3 Vacuum or incandescent vapor lamps

4 Mercury vapor lamps

For mercury rectifiers see 621.3137

5 Carbon vapor lamps Moore lamp

7 Vacuum lamps for special radiations: Crookes tubes, etc.

621.328 Apparatus at servis end of line
1 Underwriters requirements
National electric code
2 House wiring
3 Panels
4 Fuzes
5 Insulators, etc.
6 Meters
See also 621.37 Electric mesurements and testing
7 Switches
8
9 Other apparatus

·33 Electric traction
See 625 for construction of route; 656 for business management, maintenance; 654 for communication and signals; 699 for car bilding; 725.3 for architecture of stations, terminals, carsheds, shops, round houses, etc. This number is concernd properly only with the apparatus and appliances for transmission and use of the current after it enters the line.

·331 General
2 **Systems**
3 Systems according to servvis
32 Trunk lines
33 Interurban
34 Local
342 Surface
343 Elevated
344 Subway
4 Systems according to current
42 Direct current
43 Alternating current
431 Single-phase
432 2 phase
433 3 phase
439 Others
5 Systems according to delivery of power
52 Trolley systems
53 Overhed trolley
54 Underground trolley
56 Third rail systems
562 Unprotected third rail
564 Protected " "

·332 The line (including track)
1 **General**
Interaction of parallel lines, heat losses, etc. are better clast in 621.31921
17 Feeders and return systems
2 **Overhed wire Trolley lines**
23 Catenary suspension
25 Trackless trolley
3 **Third rail**
5 **Underground conductor or contact**
6
7 **Accessories**
9 Other types of line

·333 Track
1 General
16 Deteriorating influences
167 Electrolysis Leakage
2 Rails
4 Bonding

621.334 Rolling stock
For nonelectric rolling stock see 656 for administration, 699 for construction
2 Locomotivs
3 Motor cars
4 Accessories and parts Control systems
Motor, controller, current collecting devices, etc. Multiple unit control
5 Locomotiv and car wiring
7 Running gear and other nonelectric details

·35 Chemic electricity Voltaic cells and generators
Primary and secondary

·351 General
E.m.f, counter e.m.f, polarization, weight, capacity; efficiency, life, crumbling, deterioration and detrimental influences; residues

·352 Parts and accessories of cells and accumulators
1 Containers: jars, troughs, vats, etc.
2 Electrodes and their accessories: positiv and negativ plates or elements
Grids, supporting frames, insulating rods, etc.
3 Diaframs and partitions
4 Electrolytes Depolarizers Packing
5 Circulators Condits and piping
6 Connections Terminals Binding posts
7 Regulating apparatus
8
9 Other apparatus

·353 Primary cells
See also 537.5 Voltaic electricity; 541.37 Electrochemistry
1 General
3 Single fluid
4 Double " Hevy current cells
5 Open circuit or nondepolarized
6 Closed circuit or depolarized
7 Accessories and parts
8 Classification according to use or operating methods

·354 Accumulators or storage batteries
Secondary cells and batteries
1 General
18 Care and handling of accumulators
7 Accessories and parts

·355 **Led accumulators**
1 General
18 Care and handling
2 Naturally formd: Planté type
3 Artificially formd: Faure type
4 Combined Planté-Faure types
5 Other led accumulators
52 Complex oxid types
55 Led element accumulators
56 Copper led "
57 Zinc " "
58 Cadmium " "

·356 **Alkalin accumulators**

·357 **Other types of accumulators**
Thallium, gas, etc.

·358 Other classifications of accumulators
According to use or operation

·359 Other topics pertaining to chemic generation of electricity

·36 Vacant for future use; perhaps for direct transformation of heat or fuel energy

621.37 Electric mesurements, meters and testing
·371 General
Tariffs may be clast here, tho better put in 654
·372 Standards Calibration of instruments
·373 Meters General types
Recording meters. See also special meters, 621.384
Prepayment meters. See also special meters, e.g. 621.3745 Watt hour
·374 Special meters and mesurements
2 **Resistance meters: inductance, capacity**
Wheatstone bridges, ohmmeters, resistance boxes
3 **Potential meters: voltage**
Voltmeters, electrometers, standard cells
4 **Intensity meters: current**
Galvanometers, ammeters, coulometers, Ampère-hour meters
5 **Quantity or work meters Watt-hour meters**
6 **Power meters Watt meters**
7 **Frequency meters Oscillografs**
9 **Other meters and mesurements**
91 Phase meters Power-factor meters Synchronizers
·379 Other electric mesuring instruments
For other than electr c mesurements; e.g. electric thermometers

Weak current engineering

·38 Electric communication: telegrafy, telefony, wireless
Libraries have too much material clast in 654 to make it practicable to abolish that number for construction and instruments; but for electric engineers and new libraries who prefer it, the detaild technical classification is developt here.
For overhed or underground lines see 621.3192
·381 General
382 Telegrafy Systems
When systems and instruments conflict, classify according to systems.
For business administration, see 654; for wireless see 621.384
15 **Codes**
152 Morse
153 Continental
154 Phillips (press code)
2 **A B C, dial, needle telegraf, etc.**
21 Early experimental forms
22 A B C
23 Dial
24 Needle
25 Pointer
29 Other
3 **Hand operated code telegrafy**
31 Simplex
311 Open circuit
312 Closed circuit
32 Duplex
321 Differential duplex systems
322 Stearns duplex
323 Polar duplex
325 Bridge duplex systems

621.382 34 Quadruplex
35 Multiplex
36 Synchronous multiplex: Delany
37 Harmonic " Gray
4 **Automatic code telegrafy High speed systems**
41 Electrochemic automatic: Bain, Morse
44 Ink recording or embossing
45 Wheatstone
46 Pollak-Virag
47 Telepost (Delany)
5 **Printing telegraf**
51 Tape printing: stock tickers
53 Other tape printing: Hughes
55 Page printing: Buckingham, Murray, Baudot
57 Multiple page printing: Rowland
6 **Writing telegrafy**
Transmitting and recording characters while being written; Gray's telautograf
7 **Facsimile telegrafy**
8 **Submarine cable telegrafy**
9 **Other wire systems**
94 Induction telegrafy; from moving trains, etc.
95 Combined telegrafy and telefony Fantom circuits
·383 Telegraf instruments
1 **Transmitting: keys, senders, etc.**
2 **Intermediate and accessory: relays, repeaters, switches**
21 Relays
22 Differential relays
23 Polarized "
24 Repeaters, for simplex; Milliken, Ghegan, Toye, etc.
25 " " duplex or quadruplex
26 'Half' repeaters
27 Switches and distributing apparatus
28 Protectiv apparatus
29 Miscellaneous telegraf accessories
3 **Receiving instruments**
Sounders, recorders, etc. Subdivided, if wisht, like 621.3824-8
·384 Wireless electric communication: telegrafy, telefony
1 **General**
2 **Wireless telegrafy Systems**
21 Spark telegrafy; by free oscillations
25 Continuous-train telegrafy; by forced oscillations
3 Instruments
31 Sending apparatus
35 Antennae, aerials, and their substitutes
36 Receiving instruments and apparatus
4 Applications, adaptations, specific installations
5 **Wireless telefony systems**
6 Apparatus
61 Sending apparatus
65 Aerials etc.
66 Receiving apparatus
7 Applications, adaptations, specific installations
8 Vacant for possible development of visual transmission by wireless

621.385 Telefony Systems
See also 621.3845 Wireless telefony
1 **General**
2 **Party line**
When 2 and 3 or 2 and 4 conflict, 3 or 4 prevails
22 Series
23 Bridging
24 Selectiv
3 **Intercommunicating systems**
Without central switchboard
32 Common return systems; selectiv at each station
34 Radial common return systems; selectiv at one station only
36 2-wire systems; separate returns
4 **Central switchboard systems**
Manual; for automatic see 621.3857
42 Local battery or magneto systems
46 Common battery or central energy systems
5 Multiple switchboard systems
6 Trunking Transfer systems
61 Trunking
63 Transfer systems
7 **Semiautomatic and automatic systems**
72 Semiautomatic
75 Automatic
76 Strowger system (Automatic Electric Co)
8 **Private exchanges**
.386 Telefone instruments
Terminal; subscriber's instruments
2 Transmitters
3 Receivers
4 Induction coils
5 Condensers
6 Hook or other switches
7 Call receiving apparatus
8 Call sending "
9 Miscellaneous accessories
92 Coin collecting devices
94 Protectiv devices
96 Current supply (local batteries)
.387 Central switchboards and other station equipment
1 **General**
2 **Switchboards, manual**
22 Local battery or magneto
26 Common battery
3 Multiple switchboards
35 Divided multiple
4 Trunks Transfer boards
41 Trunks and trunking
43 A boards
45 B boards
47 Multiple plug transfer
5 **Switchboard parts and accessories**

621.387 6 **Power plant equipment and accessories**
62 Accumulators
63 Charging generators
64 Ringing "
7 **Automatic and semiautomatic switchboards**
Including accessories. Subdivided like 621.3857
8 **Telefone transmission**
For transmission common to other branches of electricity see 621.319
Put here only that peculiar to telefony
81
82 Long distance
83 Transposition
84 Telefone cable construction
85 Loading
86 Pupin coils
9 **Other central station accessories**
92 Distributing frames and racks; main
93 " " " " intermediate or secondary
94 Protectiv devices
See also 621.3178 and 621.31982
96 Meters and counters
See also 621.3286 Electric light meters
.388 Vacant for visual transmission by wire
.389 Other electric communication
.39 Other application of electricity
Subdivide like 600; e.g. electricity applied to mining 621.3922, applied to medicin 621.3915. This place is provided for specialists who prefer to mass all their material under 621.3. Libraries should class rather by purpose of the application; e.g. books on electric heating will be more useful in a general library under 697.7 with the question of heating than in 621.3997 with a general assortment of unrelated applications. References here show a library's resources on special applications
.4 **Air and gas engins and other motors**
.41 Hot air engins
.42 Comprest or rarefied air or gas engins
.43 Internal combustion engins
.431 General theory of internal combustion engins
.432 Cycles and systems of operation
1 Four cycle systems Otto cycle
2 Two cycle systems
3 Other and modified systems
.433 Gas turbins
.434 Internal combustion engins clast by fuels
1 Engins for gaseous fuels
11 Engins for natural gas
12 " " illuminating gas
13 " " blast furnace gas
14 " " producer gas
For gas producers see 665.8
15 Engins for acetylene gas
2 Engins for liquid fuels
21 Engins for gasolene
22 " " kerosene
23 " " other petroleum oils
24 " " alcohol
3 Engins for solid fuels

621.436 Special engins or motors
Those not limited to a single system or fuel; e.g. description or discussion of Diesel motor. Arrange alfabetically by name of machine
.437 Parts and accessories of internal combustion engins
.438 Special applications
3 Selfpropeld machinery
Engins for farm machinery, fire engins, roadrollers, etc. See also special machines
4 Selfpropeld vehicles
Class here only adaptation and application of internal combustion engins to motor vehicles. See also 629 for motor vehicles
5 Motors for small boats
6 " " large vessels
7 Airship motors
For airships see 629
.44 Binary vapor engins
.45 Windmills
.46 Animal motors Tredmills
.47 Solar engins
.49 Power plants and central stations
.5 Air compression or rarefaction Pneumatic machinery Refrigeration Ice machines
.51 Air compressors
.515 Dry air compressors
.517 Wet " "
.52
.53 Comprest air transmission and distribution
.532 Details of transmission Piping, mains, gages, etc. Designs of transmission
.54 Applications for comprest air
For pneumatic hoists, etc. see 621.86
.541 Comprest air motors
.542 Pneumatic tools: drills, hammers, etc.
See also 821.9 Machine tools
.543
.544 Special applications in railway servis
.545 Comprest air locomotivs
.546 Pumping by comprest air
.549 Other applications
Pneumatic cleaning, sandblasts, tubes
.55 Rarefied air and vacuum appliances
Vacuum cleaners: general discussion and description. See also domestic economy 648.52 Methods of sweeping and dusting
.56 Refrigeration
For cold storage see 664.8
.564 Refrigerating fluids
.565 Refrigerating systems and plants
1 Brine system
2 Direct expansion system
.566 Design Calculation of piping, refrigerating surface, etc.

621.57 Refrigerating machines
.572 Ammonia compression machines
.573 Ammonia absorption "
.574 Carbonic acid machines
.575 Air machines, vacuum machines, etc.
.579 Other
.58 Icemaking
.581 Can system
.582 Plate system
.6 Blowing and pumping engins
.61 Piston blowers Blast furnace blowing engins, etc.
.62 Rotary blowers
.63 Centrifugal blowers
Including fans: exhaust and plenum
.64 Power pumps and pumping engins
Regardless of motiv power
.641 General theory Design and construction
.642 Tests of pumps and pumping engins
.65 Direct acting pumps
.652 Piston pumps
.654 Plunger "
.66 Rotary pumps
.67 Centrifugal pumps
.68 Fire engins
.69 Other blowing and pumping devices
Steam jets, ejectors, etc.

621.7 Mills Factories Engineering works

Engineering questions affecting establishment and conduct of manufacturing plants. Arrangement of shops and departments (including storehouses, offises, etc.) with reference to sequence of processes, economy of power and handling; also equipment and internal arrangement of each shop. See also

651 Offis methods and equipment
657 Accounting, costkeeping, estimates
658 Business methods
659 Advertizing, etc.
670 Manufactures: articles, and methods and machines for making them
725.4 Architecture of factories

In 621.7 is considerd the disposition of the material for which the architect constructs the shell, the assembling into a unit of elements essential to a great factory. A works manager may wish to keep *all* his notes on his own plant here, including machines and processes for his special product, but a general library should class manufactured articles, with the special means and methods of producing them, under the number for the article; e.g. a library would class material on spindles and looms in 677, but the manager of a woolen mill might prefer to class them in 621.7983 as an integral part of his plant, tho classification under the regular number will usually prove more satisfactory in all cases

.701 Location

With reference to supply of raw material, market for finisht product, shipping facilities, relativ cost of freight on material or product; e.g. the much greater cost of carrying a bulky car than an equal weight of compact raw material as a factor in locating an automobile factory

.704 Organization and administration

Managers and engineers, professional staff; artizans and laborers regarded as machine accessories; hours and shifts considerd solely with reference to effect on output. For wages and other economic aspects see 331 Capital, labor and wages; for factory legislation (protection and welfare of employees) see 338.9. For organization of clerical force, see 651

.705 Mechanics and laborers

.71 Drafting room
- .711 General
- .712 Arrangement
- .713 Equipment
- .714 Materials and supplies
- .715 Methods and processes
- .719 Other

.72 Woodworking shop Pattern shop

May be subdivided like 621.71

.73 Forge shop

May be subdivided like 621.71

.74 Foundry

May be subdivided like 621.71

.75 Machine shop

May be subdivided like 621.71

.76 Blast furnace

May be subdivided like 621.71

.77 Rolling and drawing mills

May be subdivided like 621.71

.78

621.79 Other shops and departments

.792 Boiler and sheet metal shops

Stamping and punching May be subdivided like 621.71

.794 Special process shops

Galvanizing, plating, etc. May be subdivided like 621.71

.795 Finishing shop

Painting, glazing, grinding, buffing, testing. May be subdivided like 621.71

.796 Storehouses
- 2 Materials and supplies
- 4 Explosivs
- 6 Products Shipping department

.798 Department turning out main product

Processes and macbines Varying for different kinds of factories and provided only for factory use, see note to 621.7. Libraries should leave vacant May be subdivided like 621.71

.799 Other minor shops and departments

.8 Principles of mechanism Millwork and mechanism of transmission Hoisting and conveying machinery

.81 General Principles of mechanism Machine design

.82 Journals, shafting, etc.

.821 Journals

.822 Bearings: ball, roller, etc. Hangers Bearing metals

.823 Shafting

.8235 Flexible shafting

.825 Couplings and clutches Universal joints

Friction clutches

.826 Shaft brakes

.83 Tootht gears and cams

.831 General: theory, forms of teeth, tooth curvs

.832 Efficiency of gears Tests Friction of gears

.833 Design of gears
- 1 Spur gears
- 2 Bevel and skew bevel gears
- 3 Worm and spiral gears

Screws for transmitting motion, endless screws

.834 Construction: gear cutting and casting

.835 Chain gearing

.837 Ratchet gearing: pawls, dogs

.838 Cams

.84 Valv motions and gears

General, trade catalogs; for special valvs see subject

.846 Valvs and cocks

.85 Machinery and mill gearing

Transmission by flexible connections

.852 Belt connection

.853 Hemp rope transmission

.854 Wire rope "

.856 Pulleys Sheaves

.858 Friction gearing

621.86 Hoisting and conveying machinery

For dredges see hydraulic engineering, 627.7 Dredging, dredging machinery See also 621.26 Hydraulic machinery; 621.18378 Fuel and ash conveyers

.861

.862 Hoists: blocks and tackle

.863 Mechanical tackle Chain blocks

.864 Winches Capstans Windlasses

.865 Power shovels

.867 Conveyers Telferage

4 Belt or bucket conveyers

5 Belt: moving sidewalks

6 Bucket: escalators, moving stairs

9 Other conveyers: cash carriers, etc.

.868 Telfers

4 Selfpropelling

.869 Other: jacks, etc.

.87 Cranes and elevators

.871

.872 Derricks

.873 Revolving cranes

621.873–5 may be subdivided like 621.8771–5 by kind of power, if wisht; e.g. 3 Steam 4 Hydraulic 5 Electric

.874 Traveling cranes

.875 Locomotiv cranes

.876

.877 Elevators

1 Handpower

2 Belt driven

3 Steam, gasoline

4 Hydraulic

5 Electric

6

7 For special purposes

71 Passenger elevators

72 Freight "

For mines see 622.17–.68

73

74 Dum waiters Book lifts

Lifts for small objects

8 Apparatus

81 Car and guides

82 Power transmitting devices

83 Counterbalancing weights and guides

84 Control devices

85 Safety "

86 Accessories

621.88 Fastenings

.882 Screws and bolts Systems of screw threads

For screws for transmitting motion see 621.8333

.883 Keys and cotters

.884 Rivets Design of riveted joints

.89 Friction Lubrication Lubricants

.9 Machine tools

Manipulation Discussion and catalogs of different kinds and makes of metalworking tools. For manufacture of various tools, see 672. For woodworking tools, see 674 Wood manufactures; also 684 Cabinet making, 694 Carpentry

.91 Planing and milling machines

.912 Metal planers, shapers, and slotters

.92 Grinding and filing Abrasivs

.922 Cylinder and surface grinding machines

Lapping machines

.923 Emery wheels

.924 Filing machines

.93 Cutting and sawing

.931

.932 Metal sawing and cutting machinery

.94 Turning

.941

.942 Metal turning lathes

.943

.944 Pipethreding machines

.945 Boring mills

.95 Perforating machinery

.951

.952 Drilling machinery Drills

.953

.954 Reamers

.955 Tapping machines

.96 Punching and shearing machinery

.97 Hammers Riveting tools

.98 Bending, straightening, and shaping

.981

.982 Bending machinery

.983 Straightening machinery

.984 Flanging and die press machinery

.99

622 Mining Engineering. See also 338.2, Mining products

May be subdivided like 620 and 620.0; e. g. Societies, 622.06; Reports, 622.009

.1 Exploration and Prospecting.

.11 Theory. Applied Geology, etc.
.12 Prospecting. Practical Methods.
Including Divining Rods.
.13 Mineral Surveys.
.14 Mine Surveying.
.15 Magnetic Surveys.
.16 Theory of Faults. See 551.87 and 553.19
.17
.18
.19 Mining Prospectuses. See 553

.2 Practical Mining.

.21 Excavation.
.22 Quarrying.
.23 Drilling and Blasting.
.24 Deep Boring.
.25 Shaft Sinking.
.26 Tunneling and Drifting.
.27 Stoping.
.28 Timbering. Masonry lining. See also 622.56.

.3 Working of Mines. Exploitation.

.31 Open Workings.
.32 Hydraulic Mining and Sluicing.
.33 Coal Mining. See 553.2.
.34 Metal Mining. See 553.3 and .4.
.35 Working Thick Deposits.
.36 Salt Mining. See 553.63.

622.4 Ventilation and Lighting of Mines.

.41 Theory. Gases met with, etc.
.42 Natural Ventilation.
.43 Furnaces. Steam Jets, etc.
.44 Fans. See 621.62.
.45 Airways. Stoppings. Regulators.
.46 Measurement of Ventilation.
.47 Lighting. Safety Lamps, etc.

.5 Drainage.

.51 Theory of Infiltration of Water.
.52 Natural Drainage.
.53 Cornish Pumps. See 621.64.
.54 Steam Pumps. See 621.64.
.55 Hoisting of Water.
.56 Dams and Watertight Linings. See also 622.28, Timbering.
.57 Acid Waters.

.6 Extraction. Hoisting and Transportation.

.61 Handling Mineral in Working Place.
.62 Underground Roads.
.63 Mine Cars. Trams, etc.
.64 Gravity Roads and Planes.
.65 Tramming and Animal Haulage. See 625.7.
.66 Mechanical Haulage.
.67 Hoisting Engines. Drums. Ropes.
.68 Cages. Skips. Buckets.
.69 Surface Transportation.
Including Mineral roads, Wire ropeways, Transhipment, Loading and unloading, etc.

.7 Mechanical Preparation. Ore Dressing.

.71 Theory. Preliminary Operations.
.72 Hand Dressing.
.73 Crushing. Stamping Engine.
.74 Screening.
.75 Jigging. Ore Concentrators.
.76 Slime Treatment.
.77 Magnetic Separation.
.78 Coal Washing.
.79 Dressing Works.

.8 Dangers and Accidents. See also 613.6, Hygiene; 331.82, Laboring classes.

.81 Explosions of Fire-Damp.
.82 Mine Fires.
.83 Crushing and Fall of Ground.
.84 Flooding of Mines.
.85 Accidents to Miners.
.86 Rescue and Relief.
.87
.88
.89

623 Military and naval engineering

For military and naval science, maneuvers, strategy and tactics see 355-359

SUMMARY

623.1 Fortifications: field and permanent
.2 Siege operations: mines, etc.
.3 Defensiv operations
.4 Ordnance and projectils
.5 Gunnery
.6 Military roads and bridges
.7 Military signals: telegraf, ballooning, etc.
.8 Naval architecture
.9 Armor Torpedoes, etc.

.1 Fortifications: field and permanent

.11 Principles of fortification
.111 Profiles
.112 Plans
.113
.114 Defilading
.115
.116 Details: bastions, curtains, glacis, etc.
.117 Accessory defenses
Flanking defenses; outworks, palisades; moats, obstacles, etc.
.12 Construction of permanent fortifications
.122 Earthwork
.123 Masonry: concrete
.124 Armor
.13 Systems of forts
.131 Central fort
.132 Citadel
.133 Fortified positions
.134 Barrier forts
.15 Temporary fortifications Field works
.19 Special forts
Divided like 930-999; e.g. history of the fortress of Gibraltar 623.19468

.2 Siege operations Mines

Class here only engineering operations. For conduct of sieges, see 355.44

.21 Siege works
Investment, establishing camps
.22 Circumvallation and countervallation
.23 Establishing parallels and advancing batteries
.24 Zigzags Saps
Trenching, blindage, gabionades
.25 Breaching batteries Breaches
For assaults see 355.44
.26 Land mines and torpedoes
See also 623.9 Submarine torpedoes
.27 Other means of demolition
Firing and exploding devices

623.3 Defensiv operations

For maneuvers see 355.44

.34 Defense of trenches
.35 " breaches
.36 Countermines

.4 Firearms and projectils Arsenals

Including ammunition in general and fireworks. For manufacture of explosivs see 662. For general history of war customs and wepons, and of ancient engins of war see 399. Class here wepons for gunpowder and similar explosivs

.41 Artillery material
Clast according to use
.412 Field artillery material
.413 Mountain " "
.414 Landing " "
.415 Siege " "
.416 Fortress " "
Including large guns (fortress, coast and naval) considerd together
.417 Coast artillery material
.418 Naval " "
.42 Guns
.421 Guns according to form and construction
See also 623.5 Gunnery; 623.47 Gunmaking
1 Early forms: bombards, culverins, etc.
For blunderbuses and other early forms of small arms see 623.441
2 Guns proper or long cannon
3 Short cannon or howitzers (shell guns)
4 Mortars
5 Guns made in a single piece
6 Bilt up guns
61 Hoopt guns
62 Jacketed guns
63 Hoopt and jacketed guns
64 Wirewound guns
.422 Guns according to mode of loading and operating
1 Muzzleloading guns
2 Breechloading "
3 Rapidfire guns
4 Machine "
42 Multiple tube guns
Gatling guns, Hotchkiss revolving cannon
43 Single tube guns
5 Automatic and semiautomatic guns
Hotchkiss, Maxim, Colt
.423 Form and interior arrangement of guns
1 General plan
2 Outside form
3 Hooping
4 Jacketing
5 Bore
6 Rifling
7 Chamber

623.424 Breech and firing mechanisms
1 Breech closing apparatus
11 Block
12 Wedge
13 Screw
2 Firing apparatus Vent Vent bushing Firing pin
3 Safety apparatus: gas checks, etc.
.425 Sighting attachments
For detacht apparatus, sec 623.462
1 Backsight, sliding notch, eyehole, etc.
2 Sight Foresight
.43 Mounts and carriages
Including their parts and accessories
.431 Field and mountain mounts and carriages
1 Field mounts
2 Mountain mounts
3 Machine gun mounts
4 Caissons and limbers
5 Ammunition chests
6 Battery carriages (i. e. tenders)
.432 Siege mounts and carriages
1 Siege gun mounts
2 Howitzer mounts
3 Mortar mounts
4 Siege carriages (i. e. tenders)
.433 Fortress, coast and naval mounts
For accessories see 623.435
1 Casemate mounts
Pedestal and pivot mounts
2 Barbet mounts
3 Disappearing mounts
4 Turret mounts
.434 Naval mounts
For discussion limited to naval use
.435 Mechanism of mounts
Platforms, circular pintle block and pivots
1 Checks and transoms
2 Chassis and crosshed slides
3 Mechanism for maneuvering and going into battery: wheels, trucks, rollers
4 Sighting apparatus
5 Recoilchecking mechanism Breeching Vent plug
6 Recoil mechanism Brakes
61 Automatic friction recoil checks
62 Screw brakes
63 Hydraulic brakes
64 Pneumatic "
65 Trail spades
7 Reactionary mechanism
Devices for restoring guns to firing position after recoil
71 Spring recuperators
72 Pneumatic recuperators

623.436 Maneuvering appliances
1 Levers, handspikes, roller handspikes
2 Breeching tackle
3 Shot barrows, shell barrows
4 Projectil hoists
See also 621.86 Hoisting and conveying machinery
.44 Small arms
Mechanism and military efficiency
For small arms practis see 355.5
" manufacture of small arms see 683
" wepons prior to firearms see 399
.441 Primitiv forms of firearms
Blunderbus, harquebus, etc.
.442 Rifles, muskets, carbines, musketoons
Including also bayonet as part of the complete wepon
1 Single shot, muzzleloading
2 " " breechloading
3 Repeating rifles
31 With magazine
32 " loader
4 Automatic guns
.443 Pistols and revolvers
1 Single shot pistols
3 Automatic pistols
4 Revolvers
.444 Side arms Cutting arms
For halberds, axes, dirks, poniards, and other antiquated forms see 399
2 Swords
3 Bayonets: saber, bayonets, sword bayonets
4 Lances
.45 Ammunition and fireworks
Kinds and relativ efficiency for military purposes. For details of manufacture of powder and explosivs see 662
.451 Artillery projectils
Including exploder as part of projectil
1 Spheric projectils
11 Solid shot
12 Bombs
13 Shells: early shrapnel
14 Grenades
2 Elongated projectils
22 Case shot: canister and grape
25 Elongated bullets
3 Shells
4 Modern shrapnel
5 Segment and ring shell
6 Incendiary shells
For illuminating shells see 623.45446
7 Shells with high explosiv Torpedo shells
8 Armorpiercing shells and other projectils

623.452 Powders Explosivs
See also 662.2 Powder manufacture
1 Gunpowder
2 Other powders
9 Other explosivs
.453 Fixt ammunition
.454 Exploding devices and fireworks
See also 662 Pyrotechnics, explosivs, matches, etc.
1 Matches and fuzes
11 Slow matches and fuzes
12 Quick matches and fuzes
2 Exploders
21 Percussion caps
22 Primers
23 Projectil fuzes
24 " detonators
29 Other exploders, etc.
3 Fireworks, bombs, etc.
For torpedoes see 623.9
31 Incendiary deviccs
32 War rockets
33
34 Petards
35 Camouflets
4 Illuminating fireworks
41 Links
42 Torches
43
44 Signal rockets
45
46 Illuminating projectils Star shells
.455 Small arms ammunition
For powder see 623.452
1 Spheric bullets
2 Elongated bullets Minie ball
3 Cartridges Fixt ammunition
32 Jacketed bullets
35 Prohibited bullets: Dumdum or expanding; explosiv
Those prohibited by Hague conference
.46 Artillery accessories
.461 Battery tools
.462 Instruments
1 Sighting apparatus; rear sight, quadrants, elevating arcs, range scales
5 Range finders
.463 Implements: rammers, swabs, levers
.47 Arsenals
Subdivide like 621.7

623.48 Preservation and care of munitions
Reception, tests, accidents
.481 Preservation
1 Magazines
2 Guns
3 Carriages
4 Small arms
.482 Reception Tests Buying
1 Inspection
2 Acceptance tests
3 Function of commissions Experimentation
.483 Accidents Explosions; preventiv mesures
1 Accidents to persons
2 " material
21 Accidents to arms
22 " in transit
Damage to boats, cars, etc.
23 Accidents to structures
.5 Gunnery
Theoretic and experimental; efficiency of artillery system as a whole
.51 Theory and strength of guns
.52
.53 Interior ballistics
Effects of powders; experiments
.54 Exterior ballistics
.55 Sighting and firing
.551 Field and mountain guns
.552 Siege guns
.553 Fortress, coast and naval guns
.554 Naval target practis
.56 Effect of projectils
.561 On living targets: impact, gases
.562 " inanimate targets
1 Earthworks
2 Masonry Concrete
3 Armor
.57 Reaction of mounts
.571 Rigid rolling mounts
.572 " sliding "
.573 Theory of braking
.574 Mechanically controld recoil
.575 Nonrecoil mounts
.58 Traction of carriages

623.6 **Military roads, bridges and bildings**

From the special point of view of military servis For construction in general see 690.1 and 721; for bridges, roads and railways see 624 and 625; for seacoast walls, 627 Hydraulic engineering

.61 Military bildings

Duplicating 725.18 for military engineers. Libraries should use 725.18 and leave 623.61–.614 vacant; for construction of fortifications see 623.1

.611

.612 Barracks

.613 Military establishments

Groups of bildings forming a unit; e.g. military schools, army posts

.614 Magazines

.62 Military roads and thorofares

See also 625.7 Construction of roads

.63 Military railways

See also 625 Railway construction

.631

.632 Destruction of tracks

.633

.634

.65 Military bridges

For permanent bridges see 624

.651

.652 Pontoon bridges

.653 Trestle bridges

.654 Other temporary bridges

.66 Bridge material

.7 **Military signals Aeronautics, etc.**

Special military applications of science

.71 Military topografy

Special processes and instruments. See also 526 Topografy in general

.72 Photografy

Reproductiv processes applied to military art. See also 770 Photografy

.73 Signaling Military telegrafy

.731 Visual signals: heliografs, searchlights, etc.

.732 Military telegrafy

Both wire and wireless. See also 621.382 and 654 Telegrafy

.733 Military telefony

Both wire and wireless. See also 621.385 and 654.6 Telefony

.74 Military aeronautics

For principles see 533.6 Aeronautics; for construction of airships see 629
Class here only military utility

.741 Machines lighter than air

.742 Free balloons

.743 Dirigible balloons

.744 Captiv balloons

.745

.746 Machines hevier than air: aeroplanes

.749 Other

.75 Military sanitation

Camp sites: soil, water, drainage, etc. For personal hygiene see 613.67

623.8 **Naval Architecture.** See also 699, Ship building.

.9 **Armored Vessels, Torpedoes, etc.**

624 Bridges and Roofs.

.1 **Piers. Foundations, etc.**

.2 **Girders. Stresses and Strains.**

.3 **Trussed Bridges.**

.4 **Tubular Bridges.**

.5 **Suspension Bridges.**

.6 **Arched Bridges.**

.7 **Compound Structures.**

.8 **Movable Bridges.**

.9 **Roofs.**

625 Railroad and Road Engineering.

See also 624, Bridges; 622.2, Tunnels; 622.26, Excavations, etc.; 621.33, Electric railways.

.1 **Route. Road Bed, Rails, Ties, etc.**

.2 **Trains. Brakes, Couplings, Wheels, etc.** See 621.13, Locomotives.

.3 **Inclines and Mountain Railways.**

.4 **Elevated and Underground Roads. Subways.** See also 614.782.

.5 **Cable Roads.**

.6 **Horse Cars. Tramways.**

.7 **Roads. Highways.**

.8 **Pavements.** See also 628.47, Sanitation of towns.

.9 **Ship Railways.**

626 Canal Engineering.

.1 **Route.**
.2 **Water Supply.**
.3 **Size and Shape.**
.4 **Locks.**
.5 **Lifts and Inclined Planes.**
.6 **Canal Boats. Size, Shape, etc.** See also 699, Shipbuilding.
.7 **Towing. Power, etc.**
.8 **Irrigation Canals and other Irrigation Works.**
.9 **Ship Canals.**

627 River, Harbor, and General Hydraulic Engineering

.1 **Rivers. Force of Water. Discharge. Bars.**
.2 **Harbors. Breakwaters.**
.3 **Docks. Piers. Quays. Shipping Facilities.**
.4 **Dikes and Levees. Embankments.**
.5 **Other Protection and Reclamation of Land from Tides and Waves. Drainage.** For Agricultural Drainage see 631.
.6 **Jetties.**
.7 **Dredging. Dredging Machinery.**
.8 **Dams.**
.9 **Lighthouses. Buoys.**

628 Sanitary Engineering. Water-works.

.01, Theories, Utility; .02, Compends; .03, Dictionaries; .04, Essays; .05, Periodicals; .06, Societies; .07, Study and Teaching; .08, Polygraphy; .09, History and Description of Sanitation and General Sanitary Works, divided geographically like 930–999.

.1 **Water Supply of Towns.** For isolated supply see 628.7.

.11, Sources of Water Supply; Lakes, Rivers, Springs, Wells, and Pumping. .12, Pumping vs. Gravitation Systems; Pump-well; Stand-pipe; High Service; Holly System. .13, Storage and Service Reservoirs. .14, Conduits; Aqueducts; Tunnels (see 622). .15, Mains and Service Pipes; Freezing; Iron; Lead. .16, Impurities and their Removal; Filter-basins, etc. .17, Public (Sprinkling, Fire, Flushing), Manufacturing, and Domestic Use and Waste; Meters.

.2 **Sewerage Works.**

.21 Sewerage Systems.

1, Combined System; 2, Separate System; 3, Liernur System; 4, Shone System; 5, Berlier System; 6, Other Systems; 7, The Outfall; 8, Depth and Alligment; 9, Grade and Velocity.

628.22 Shape and Size of Sewers.

1, Storm-water Flow; 2, Ordinary Flow; 3, Circular Section; 4, Ordinary Egg-Shape; 5, Other Egg-Shapes; 6, Other Forms; 7, ; 8, Formulas for Size.

.23 Ventilation of Sewers.

1, Openings in streets; 2, Lamp Posts; 3, Flues in Houses; 4, Pipes on Houses; 5, House Drains; 6, Chimneys and Furnaces; 7, Charcoal and Chemicals to deodorize sewerage gas; 8, Special Mechanism; 9, Special Construction.

.24 Design and Construction of Sewers.
.25 Sewer Appurtenances.

1, Junctions; 2, House Connections; 3, Manholes and Lampholes; 4, Flushing Shafts and Fixtures; 5, Catch Basins and Inlets; 6, Traps and Ventilators; 7, Valves and Penstocks; 8, Overflows and Regulators; 9, Miscellaneous.

.26 River Crossing.
.27 Intercepting and Outfall Sewers.
.28 Reservoirs and Tank Sewers.
.29 Pumping Stations.

.3 **Disposal of Sewage.**

.31 Physical Properties of Sewage.
.32 Deodorization and Disinfection of solids and liquids. See 628.237.
.33 Subsidence.
.34 Precipitation.

1, Precipitation tanks; 2, Mixing Machinery; 3, Filter Presses; 4, Precipitation by Salts of Alumina; 5, By Lime; 6, By Salts of Iron; 7, By Other Methods; 8, Disposal of Sludge; 9, Miscellaneous.

.35 Filtration.
.36 Irrigation.

1, Broad Irrigation; 2, Ridge and Furrow Irrigation; 3, Flat Bed Irrigation; 4, Sub-surface Irrigation; 5, Intermittent Downward Filtration; 6, Carriers and Appurtenances; 7, Drains and Drainage of Sewage Farms; 8, Filtration Areas; 9, Miscellaneous.

.37 Sewage Farming. Required modifications of ordinary methods.
.38 Sewage Manures.
.39 Discharge into Sea, etc.

.4 **Sanitation of Towns.**

.41 Middens and Privies.
.42 Pail Systems.
.43 Earth Closet Systems.
.44 Domestic Ashes and Garbage.
.45 Public Urinals and Latrines.
.46 Street Cleaning and Sprinkling.
.47 Pavements and Subways.
.48 Trees in Streets and Squares.
.49 Manufacture of Fertilizers from Town Wastes.

.5 **Industrial Sanitation.**

.51 Factories and Trades.

1, Prevention of Dust and Fumes; 2, Protection of Throat and Eyes; 3, Protection against Infection; 9, Special Trades.

.52 Effluvium Nuisances.

1, Situation of Works; 2, Use of High Chimneys; 3, Condensation in Water; 4, Combustion in Furnaces; 9, Special Trades.

.53 Smoke Nuisance.

8, From Steam Generators; 9, From Special Industries.

.54 Disposal of Solid and Liquid Wastes.

1, Discharge into Streams; 2, Absorbing Wells and Burial; 3, Clarification by Subsidence; 4, Chemical Treatment; 5, Filtration; 6, Purification by the Soil; 9, Special Methods and Special Trades.

.6 **House Drainage.**
.7 **Rural Water Supply. Villages and Country houses.**
.8 **Ventilation and Heating.** See 697, 644, 628.23, 622.4, 621.19.

This head is chiefly for Ventilation. Most matter on Heating goes in 697.

.9 **Lighting.** See 621.32, 537.83, 644, 665.

629 Other Branches of Engineering.

630 Agriculture.

1, ; 2, Compends; 3, Dictionaries, Cyclopedias; 4, Essays; 5, Periodicals; 6, Societies; 7, Study and teaching; 8, ; 9, History divided like 930–99.

631 Soil. Fertilizers. Drainage.

632 Pests. Hindrances. Blights. Insects.

633 Grains. Grasses. Fibres. Tea. Tobacco, etc.

634 Fruits. Orchards. Vineyards.

.9, Forestry. See also 715, Landscape gardening.

635 Kitchen garden. See 716 for Flower gardens.

636 Domestic animals. See also 619, Veterinary medicine; 599.7, Zoölogy.

.1 **Horses. Asses. Mules.** See 682.1, Horseshoeing.
.2 **Cattle.**
.3 **Sheep. Goats.**
.4 **Swine.**
.5 **Poultry.**
.6 **Birds.**
.7 **Dogs.**
.8 **Cats.**
.9 **Other. Camels, etc.**

637 Dairy. Milk. Butter. Cheese.

638 Bees. Silkworms.

639 Fishing. Trapping.

640 Domestic economy

Public as well as private household administration covering work of housekeeper, matron, steward, janitor, etc. in hotels, clubs, apartments, boarding houses, schools, restaurants, factories, offis and other commercial bildings, churches, theaters, railway stations, ships and other public gathering places.
For economics of consumption, including standards of living, see 339; for care of library bildings see 025.9. Numbers for allied subjects in army and navy will be provided under military and naval science. See also 331.83 Food, clothes and shelter of laboring classes

SUMMARY

641 **Food, cooking, kitchen**
642 Serving, eating
643 **Shelter, house, home**
644 Heat, light, ventilation
645 Furniture, carpets, upholstery
646 **Clothing, toilet**
647 **Administration, household management**
648 Sanitary precautions, cleaning
649 Nursery, sickroom

.1 **Theories, utility, etc.**
.2 **Compends**
.3 **Dictionaries, cyclopedias**
.4 **Essays**
.5 **Periodicals**
.6 **Societies**
.7 **Study and teaching**
Schools of housekeeping, experiment stations. Investigations of home conditions. For cooking schools see 641.07
.71 Schools and experiment stations
See 630.7 Agricultural schools, farmers institutes; 630.6 Farmers associations, granges, etc; 371.42 Manual training courses; 371.6764 Laboratory equipment for home economics courses; 375.64 Place in curriculum; educational values. 640.711–.74 may be used for keeping all phases of the subject in 640
.711 College and university courses and departments
Schools of college grade
.712 Secondary courses; high school
.713 Elementary courses; below high school
.714 Extension work
Courses for special needs: women's clubs, farmers' wives, etc.
.72 Research work: experiment stations, graduate courses
For Sage foundation see 306
.73 Normal courses. teachers institutes, etc.
.74 Exhibits Museums
.9 **History**

641 Food Cookery

For physiology of nutrition, see 612.39; for dietetics and dietary standards, 613.2; for food values, 641.1
.01 Gastronomy Epicurism
Plesures of eating, esthetics of cookery, epicures (gourmets). For gluttony, see 178.91 and 613.25
.02 Compends
.03 Dictionaries, cyclopedias
.04 Essays, addresses, lectures
.05 Periodicals
.06 Societies
.07 Study and teaching Cooking schools, classes and clubs
.08 Polygrafy
.09 History and description
Divided like 930–999. Including foods characteristic of different peoples, but for preparation of specific dishes (i. e. recipes) peculiar to special countries see 641.59

641.1 **Food chemically considerd Food values Tables**

For methods of chemical analysis see 543.1; for adulterations see 614.3; for commercial preparation or manufacture see 664; for physiology of nutrition see 612.39; for dietetics see 613.2

612.39 treats of physiologic effect of different kinds and quantities of foods from purely scientific point of view, without regard to benefit or injury

613.2 treats of food requirements in special conditions of age or disease and of the beneficial or injurious effects of different kinds of foods

641.1 translates scientific facts into familiar terms for cook and housekeeper, treats of the required amount of the different constituents and their proportion as found in various foods

.11 Organic food constituents

.12 Proteids or nitrogenous foods

Meat, egs, nuts, legumes, etc. See also 612.398

.13 Carbohydrates or nonnitrogenous foods

Vegetables, cereals, fruits, sugar See also 612.396

.14 Fats, oils

See also 612.397

.15 Inorganic food constituents

.16 Water

.17 Salts, mineral or ash constituents

.3 Animal and vegetable foods

Class here also works dealing both with food material and its preparation

Subdivided like 630 (not yet completed); e.g. 641.33 Cereals, 641.34 Fruits

.31 Prices Relativ cost

Quality and other factors in buying for table

.4 Food preservation Markets

Subdivide like 664 (not yet completed)

For commercial methods see Chemic technology 664.8–.9; for transportation see 656 (subdivision not completed)

.5 Cookery Cook books

General recipes, specific directions, in whatever form (books, cards, etc) for preparing food

Distinction between 612.39, 613.2 and 641.5; in 641.5 class cook books and collections of recipes in which physiologic and hygienic effects of foods (if treated at all) are secondary; in 613.2 class dietaries and selection and preparation of food for special systemic conditions, with recipes subsidiary or with recipes and diet about evenly balanced; in 612.39 class the scientific study of physiologic effects of various foods, regardless of benefit or injury

See also 641.59 Recipes peculiar to special countries; 641.6 Cookery of specific substances; 641.7 Cookery by specific processes; 641.8 Composit dishes, ices, confectionery, beverages

.52 Brekfast

.53 Luncheon, afternoon tea, supper

.54 Dinner

.55 Economic cookery

.56 Special conditions

Under limitations of age, helth, ethical or religious theories, etc.

.562 Children

.563 Invalids and aged Hospital cookery

.564 Ethical limitations

.565 Religious limitations

.566 Seasons and days: Lent, fast days, etc.

.567 Cults: Jews, Buddhists, etc.

641.57 Special situations

Adaptation to large numbers, large variety, and limitations of time, place or appliances

.572 Hotel and restaurant cooking

.573 Army and navy cooking

See also 355

.574 Shipboard cooking

Exclusiv of navy

.575 Camp and travel cooking

.576 Railway dining and buffet cars

.577 Itinerant companies; circuses, etc.

Methods of feeding large numbers en route or in temporary shelters

.578 Camp cooking

.58 Special utensils or fuels

.583 Cooking by oil

Including oil and gas together

.584 Cooking by gas

.585 Cooking by alcohol Chafing dish recipes

.586 Cooking by electricity

.587 Cooking by apparatus heated by steam or hot water

.588 Cooking by slowly applied heat

Aladdin ovens, fireless cookers

.59 Cookery of special countries

Class here descriptions of national cookery or recipes for dishes characteristic of special countries or regions

.591 Frigid zone and cold wether

.592 Tropics and hot wether

Divide farther like 930–999, using these numbers preferably only for reference and shelving books under 641.5–.578

.6 Cookery; clast by material

Subdivide like 641.3 (not yet completed)

.7 Cookery; clast by process

.71 Baking, roasting

.72 Braising

.73 Boiling, simmering Soups

.74 Stewing

.75 Steaming

.76 Broiling, grilling

.77 Frying, sautering

.8 Composit dishes

Ices, confectionery, beverages, etc. See also 641.53 Luncheon, afternoon tea, supper

.81

.82 Entrées Made dishes

.83 Salads

.84 Sandwiches

.85 Confectionery, candies, sweets, bonbons

.86 Ices: ice cream, sherbet, water ices, etc.

.87 Beverages Soft drinks

See also 663 Manufacture of beverages; 663.8 Bartenders manuals, mixing drinks; 613.3 Hygiene of beverages

642 Serving Table Entertaining

See also 395 Etiquet

.1 Home and family meals

Brekfast, lunch, dinner, supper. Menus and servis

For tables of chemic constituents and calories see 641.1

.2 Refreshments

Afternoon tea, sandwiches, ices, soft drinks

.3 Camp, picnic and travel lunches

Lists of supplies; suitable food and dishes; packing and accessories. For recipes see 641.53; for camp cookery see 641.578

.4 Entertaining

.41 Private entertainments

.42 Small numbers

Luncheons, dinners, etc.

.43 Large numbers

Receptions, balls, garden parties, etc.

.45 Public entertainments

Banquets, dinners, clambakes, etc. For history of banquets, eating, etc. see 394.1 under Public and social customs. For dining room see 643.4

.48 Toasts Table anecdotes and conversation

See also table talk in literary miscellany

.5 Table systems for large numbers

.51 Table d'hôte

.52 American plan

.53 European plan, à la carte

.54 Club: choice of combinations

.55 Harvard Memorial hall plan

Harvard university plan of a fixt charge for essentials, and coupons (alimentary milage) for extras

.56 Mixt plan

Table d'hôte and à la carte; table d'hôte and club

.57 Lunch counters Caffetaria

.58 School lunch rooms

Management, prices, rules for payment, suitable food, freedom of choice, etc. See also 371.716 School meals

.6 Serving Carving

Directions for setting table, changing courses, etc.

.7 Table furnishings

Linen, china, glass, plate, etc. Preferably clast here, tho possible to be considerd part of 645.66 Dining room furnishings

.8 Table decoration

Selection and effectiv arrangement of flowers, colors, lights, centerpieces, etc.

643 Shelter: house, home

For types of houses and plans see 725, 727 and 728; for materials and construction see 690; for heating and ventilation see 628.8, 644 and 697; for lighting, 628.9 and 644.3; for plumbing and gasfitting see 696; for furnishing see 645

.1 Location, site

Social and religious character of neighborhood; accessibility, railways, tramways, etc; nearness to churches, schools, markets, etc. Property increasing or decreasing in value

For hygiene of soil and grounds: city, village or country see 614.77; for Sanitation, water supply and drainage see 628

.2 Plan

Requirements of house for convenient and economic administration; relativ situation and intercommunication of rooms, amount and direction of light, etc. Special rooms: kitchen, dining room, baths, etc. For detacht rooms and bildings see 728.9; for furnishing see 645; for architectural aspect of structural parts of house (foundations, floors, walls, etc) see 721; for wall finish see 729.31

.3 Kitchen and its equipment

.31 Plan: situation and arrangement

Relation to rest of house Housekeeper's requirements as guide to architect Light For plans see 728 Residences, and 728.93 Detacht kitchens

.32 Ventilation

Carrying off odors, etc.

.33 Stoves, ranges, cookers, hot tables, fuels

See also 641.58 Cooking by special utensils or fuels

.331 Fireplaces, open fires: turnspit, crane, etc.

.332 Coal and wood Stoves and ranges

.333 Oil and oil stoves

.334 Gas and gas stoves

Including natural gas and acetylene

.335 Alcohol and alcohol stoves Chafing dish

.336 Electricity and electric stoves

.337 Steam heated cooking appliances Steam tables

.338 Slow and fireless cookers

Aladdin oven, Norwegian haybox. See also 641.588

.34 Machinery and laborsavers

.35 Utensils

.36 Pastry room

.37 Storeroom, larder Refrigerators

.38 Care of kitchen and accessory rooms

.39

.4 Dining room and adjuncts

.45 Serving room Butler's pantry

.47 Other pantries

.48 Cupboards

.5 Other special rooms

.52 Baths, lavatories, toilets

.57 Sun rooms, solariums: sleeping balconies, etc.

.58 Laundry

Place in house; for equipment see 648. See also 728.93 Detacht laundries

.6 Laborsavers

General: bells, telefones, tubes, lifts, chutes, door openers and closers, etc. See also special subjects; e.g. 648.52 Vacuum cleaners

.7 Repair

644 Heat Light Ventilation

.1 Systems of heating

Desiderata, relativ advantages for household

For varieties of apparatus and installation see 697; for sanitary engineering see 628.8

.15 Fireplaces Family harthstone

Open fire as household institution; mental influence

Sanitary advantages See also 749 Artistic fireplaces

.19 Portable heaters: bedwarmers, warming pans, footwarmers

.2 Fuels

Relativ cost; cleanliness; labor involvd, e.g. hauling and carrying wood or coal and removing ashes. Chimney sweeping

.21 Wood

.22 Coal

.23 Oil, gasoline, etc.

.24 Gas

.26 Electricity

.3 Systems of lighting

Fixtures, fittings, accessories. Class here general discussions covering fixtures and medium, their relativ advantages, etc. For medium alone see 644.31; for fixtures see 644.32

.31 Lighting medium

See also Chemic technology 665

.311 Candles

.312 Oil

.313 Gas

.314 Acetylene

See also 621.32 Electric lighting

.315 Electricity

.319 Other

.32 Apparatus and accessories

Subdivide each, if wisht, like 644.31

.321 Hand lamps Candlesticks

.322 Lanterns

.323 Table, banquet and piano lamps

.324 Standards

.325 Wall lamps Sconces

.326 Chandeliers Ceiling fixtures

.5 Ventilation

Most material belongs elsewhere: hygienic influence of air and light 613.1; sanitary engineering 628.8; ventilating apparatus 697.9 For advantages of fireplaces see 644.15

645 Furniture, carpets, upholstery Decoration

For plan and furnishing treated together see 643

See also hygiene 613.59; architectural decoration 729; design 745; artistic furniture 749; manufactures of cotton, wool, etc. 677

.1 Floor coverings: carpets, rugs

.2 Wall coverings

.3 Window and door furnishings

Screens, shades, awnings, draperies

.4 General furniture

See also 645.6 Furnishings for special rooms

.41 Chairs Footstools

.42 Couches Settees

.43 Tables

.44 Desks

.47 Cushions, pillows, etc.

.48 Linen

Removable furniture covers, centerpieces, etc. See also 642.7 Table furnishings; 645.67 Bedroom furnishings

.49 Other

.5 Ornaments

Clocks, vases, pictures, statuary, etc. See also 739 Bronzes, brasses, bricabrac

.6 Special rooms

For kitchen see 643.3; for laundry see 648

.61 Hall and stairs

Hatracks, umbrella stands, etc.

.62 Drawing room Reception room Parlor

.63 Library

.64 Study or offis

.65 Living room

Class here furnishings of room used as combined reception room, library and living room

.66 Dining room

For table equipment and decoration see 642.7-.8

.67 Bedrooms and nursery

Sleeping balconies, open air bedrooms. Beds and bedding, linen, etc. For nursery see also 649

.68 Bathrooms Lavatories Toilets

Fittings and supplies. See also 646.7 Bathing

.69 Other rooms

Music, billiard and ball rooms, picture gallery, servants rooms, cellar, attic

.8 Outdoor space

Verandas, balconies, roof gardens

For sleeping balconies see 645.67. See also 712 Private grounds; 717 Arbors, seats, outlooks

646 Clothing Toilet

See also ethics of dress, display 177.4; ecclesiastic costume 247.7; clothing as related to economics of laboring classes 331.83; bleaching and dyeing 667.1–.3; academic costume 378.29; history of costume 391; clothesmaking 687; hygiene of clothing 613.48; adulteration of textils 614.37; for uniforms and liveries see occupations to which they pertain

.01 Psychology and economics of fashions
Reasons for change of fashions; expense of fashionable dressing

.02 Compends

.03 Dictionaries, cyclopedias

.04 Essays, lectures, addresses

.05 Periodicals

.06 Societies Dress reform societies

.07 Study and teaching

.08 Polygrafy

.09 Adaptation to climate or season

.091 Clothing for cold wether and frigid zones

.092 " " hot " " tropics

.1 Materials Textils and fibers
With reference to domestic use, or domestic use and hygiene combined. For hygiene of materials see 613.481; for general works on textils and fibers see 677 Manufacture of textils

.11 Cotton

.12 Linen Flax Hemp

.13 Wool Mohair, alpaca, camel's hair, rabbit's hair, etc.

.14 Silk

.15 Lether

.16 Fur

.17 Other animal materials: fethers, hair, whalebone

.18 Other vegetable materials

.181 Rubber

.182 Paper

.183 Celluloid

.184

.185 Straw Raffia

.186 Other fibers: jute

.19 Other materials Tinsel, aluminum, asbestos, etc.

.2 Sewing Knitting Crochet
For fancywork see 746

.21 Plain sewing
Running, backstitching, hemming, overhanding, etc.

.24 Mending Darning

.26 Knitting and crochet Tatting
For machineknit goods see 677

.27 Crochet

.3 Clothing divided by wearers
Class here trade catalogs; e.g. Liliputian bazar catalog 646.36
See also 391 Costume; 687 Clothesmaking as a trade

.32 Clothing for men

.34 " " women

.36 " " children

646.4 Clothing divided by purpose
Including directions to amatcurs for cutting and making, economic use of material, suitability of material for purpose, adaptation of style to material and purpose, choice of color, etc. For limitation to special kinds of garments see subdivisions below; e.g. patterns or catalogs of underwear 646.42
Subdivisions .42–.48 may be farther divided by 2 Men, 4 Women, 6 Children

.42 Underwear

.43 Outer house garments
Gowns or dresses, coats, trousers, etc.

.45 Outdoor garments
Cloaks, coats, overcoats, shawls, sweters, etc. See also 646.5 Hedgear, millinery; 646.48 Accessories: gloves, mufflers, etc.

.47 Garments for speeial purposes
Negligée, lounging or smoking, yachting, bathing, hunting, riding, etc.

.48 Accessories
Neckties, collars, cuffs, belts, aprons, caps, handkerchiefs, gloves, mufflers, garnitures, etc
For outdoor hedgear see 646.5

.5 Millinery Outdoor hedgear
See 687 Millinery as a business

.52 Hats, caps, etc. for men

.54 Hats and bonnets for women

.55 Other outdoor hedgear for women
Hoods, scarfs, etc.

.56 Hedgear for children

.57 For boys

.58 " girls

.6 Cleaning Drycleaning
For laundry see 648.1

.7 Toilet Cosmetics Bathing
Carc of hair, nails, teeth, etc.
For historic customs see 391.5–.6. Sec also hygiene, 613.4 Care of body

647 Household organization and administration

.1 Household accounts; finances, cost
Scc also bookkeeping 657

.2 Personnel
Intelligence offis, employment bureau
Class here regular employees or assistants; for occasional employees see 647.29
For ethical considerations, see 173.8. See also political economy, 331 Labor and wages

.21 Manager
Superintendent, housekeeper, steward. See also 640.8

.22 Male employees

.23 Female "

.24 Foren "
Races and nationalities: orientals, negroes, etc.

.25 Indoor servis
Cook, butler, waitress, parlor maid, lady's maid, chamhermaid, nurse, laundress, furnaceman, etc. For housekeeper, steward, etc. see 647.21; for outdoor servis see 647.3

.29 Other employees
Emergency help, household registers

.3 Servis outside the house
Coachman, gardener, laborers

647.6 **Wages Hours Duties**

.9 **Cooperativ and collectiv housekeeping**

Hotels, clubs, apartments, commercial bildings, churches and other public and semipublic establishments or rooms

See also 692.9 Bilding laws; 728 Residence architecture

.91 Tenements

See also 728.1 Tenement house architecture; 331.83 Housing of laboring classes, including tenement house laws; 613.53 Hygiene of tenements

.92 Apartments, flats

See also 728.2 Apartment house architecture

.93 Cooperativ housekeeping

See also 334.4 for economic aspect

.94 Hotels Clubs

See also 728.4 Clubhouse architecture; 728.5 Hotel architecture

.95 Restaurants, tea rooms, etc.

See also 642.5 Table systems for large numbers

.96 Public bildings Institutions

General administration and care affecting helth and convenience of occupants and public; janitor's duties. May be subdivided if wisht like 725; e.g. 647.962 Administration of offis bildings, or 647.9623 if so close classification is preferd

See also 362 Hospitals, asylums, etc; 365 Prisons

.97 Cottage systems

648 Sanitary precautions: laundry, cleaning

.1 **Laundry Washing**

Private, cooperativ, public. For other processes of clothes cleaning see 646.6 Dry cleaning. For sanitary precautions see 648.5-.6; for pests see 648.7

.11 Administration Accounts

.12 Marking

.14 Equipment

Collectiv: specifications and cost. Class specific appliances with processes to which they belong

.15 Hand equipment

.16 Power "

.18 Supplies

Soap, starch, bluing, powders, reagents

.2 **Washing**

Requirements of temperature, ingredients, etc. for different materials Washing directions

.22 Washing by hand

.23 " machine

.25 Starching

.27 Bluing Tinting

.3 **Drying Driers Extractors Wringers**

Confined or open air Temperature Effect on dyes of freezing, etc.

.4 **Ironing**

.42 By hand Sad irons

Electric and gas heated irons, etc.

.43 By machine Collar and shirt machines, fluting irons, etc.

.45 Power machinery Mangle

648.5 **Cleaning and sanitation of house or bilding**

See for sanitary engineering 628; for plumbing 696; for dry cleaning 646.6; for chimney sweeping 644.2

.52 Sweeping and dusting

Floors, walls, moldings, furniture; implements, vacuum cleaners, etc.

.54 Washing

Porcelain, glass, windows, mirrors, paint, including table ware, bricabrac and fixtures. For washing textils see 648.2

.55 Polishing

Silver, knobs, scutcheons, pipes and other metals

.6 **Disinfecting**

Waste pipes, traps, etc. Household disinfectants. See also 649.8 Care of sickroom; and public helth, 614.48 Disinfecting apparatus

.7 **Pests; traps, poisons**

649 Nursery Sickroom

This provides for persons requiring special adjustment of household administration: children and invalids

.1 **Care of children**

See also 136.7 Child study; 173.5 Duties of parents

.2 Rooms Nursery

.3 Food

See also 613.22 Diet of infants; 641.5 Cookery for children

.4 Clothing and care of body

See also 646.36 Childrens clothing, outfit and making; 646.4 Clothing for various purposes; 613.4 Hygiene of bathing and clothing

.5 Exercise Recreation

See also 613.7 Hygiene of recreation; 790 Amusements

.55 Amusements: toys, dolls, games

.6 Manners Habits

See also 173.6 Duties of children

.7

.8 **Care of invalids and the infirm Sickroom**

650 Communication. Commerce.

651 Office equipment and methods.

652 Writing. Materials, typewriters, cipher.

653 Abbreviations. Shorthand.

.01 Theories. Available material. Shading. Position. Detached vowels.

.02 Practicability for general use. Teaching in public schools.
For methods see 653.07.

.03 Speed. See also 653.046, Verbatim reporting.

.04 Applications.
.041, Personal notes and records; .042, Correspondence; .043, Amanuensis work; .044, Newspaper work; .045, Shorthand job offices; .046, Official reporting, court and legislative; .047,

.05 Periodicals. If strictly limited to one system, class with that system.

.06 Societies. " " " "

.07 Education. Shorthand schools. Teaching, privately or in classes.

.08

.09 History. Divided by countries like 930–999.

.1 Abbreviations. Omissions of silent letters, vowels, etc.
Covers desirability, dangers, lists, and all general matter about use of recognized abbreviations. See also 421.4, Phonetic spelling; 421.8, Abbreviations.

.2 Abbreviation systems.
Brief longhand. Fonoscribing, etc. For telegraphic codes, see 652.
Covers only systems of quick writing with common characters.

.3 Stenographies.
Includes both discussions and systems with arbitrary signs and new characters.
.31, Before 1837; .32, Gurney; .33, Gabelsberger; .34, Stolze (Dettmann); .35, Taylor (Baker; Harding; Odell); .36, Cross; .37, Scovil; .38, Duployé (Pernin, Sloan).

.4 Phonetic shorthand. Phonographies.
Limited to phonetic stenography, i. e. brief sound writing. .5 and .6 include only systems using Izaac Pitman's consonants.
.41, Before Pitman (1837); .42, Bell; .43, Jones; .44, Williams; .45,

.5 Pitman old vowel scale systems.
.51, Benn Pitman; .52, Graham; .53, Scott-Brown; .54, Marsh; .55, Thornton; .56, Haven; .57, Allen; .58,

.6 Pitman new vowel scale systems.
.61, Izaac Pitman; .62, Munson; .63, Longley; .64, Burnz; .65,

.7 Connected vowel systems.
.71, Lindsley's takigrafy; .72, Everett; .73, Barrows; .74, Bishop.

.8

.9 Foreign systems. Divided by languages like 400.
The heads above are for English systems or (as in .33) foreign systems adapted to and used for English. Other systems are grouped here by languages, but history of shorthand in special countries is in 653.09.

654 Telegraph. Cables. Signals. For codes see 652.

.1 Telegraphic instruments.

.2 Duplex, quadruplex, multiplex telegraphs, etc.

.3 Printing, perforating, dial telegraphs, etc.

.4 Telegraphic construction; poles, wires, conduits, etc.

.5 Cables. Submarine.

.6 Telephones.

.7 Alarms; burglar, fire. Annunciators, bells.

.8 Speaking tubes. Pneumatic tubes.

.9 Signals. See also 534.83, Navigation signals; 623.7, Military signals.

655 Printing. Publishing. Copyright.

.1 History of printing.

.11 Origin. Invention.

.111 Claims of Gutenberg, Mainz.

.112 Claims of Coster, Haarlem.

.12 Celebrations, anniversaries.
1, 1640; 2, 1740; 3, 1823; 4, 1840.

.13–.19 Printing in special countries. Divided like 930–999.

.2 Type and Type Setting.

.21 Type founding. Tools of the art.

.22 Electro and stereotyping, etc. Patent blocks.
For Photo-electrotyping, see 777.

.23 Patent types. Logotypes, etc.

.24 Faces; sizes; styles. Specimen books.

.25 Type setting. Composition. Proof reading.

.26 Artistic composition. Taste. Display. Job work.

.27 Imposition. Locking up, etc.

.28 Type setting and distributing machines. Linotype.

.3 Practical printing. For Calico printing, see 667.2.

.31 Printing presses.

.32 Press work. Making ready. Colors. Cuts.

.33 Drying. Hydraulic pressing, etc.

.34

.35 Stamps, stencils, etc.

.36 Machines. Paging, numbering, addressing, etc.
See also 654.3, Printing telegraphs; 651, Type writers.

.37 Nature printing. From plants, etc.

.38 Printing for blind. See also 371.91, Education of blind.

.4 History of publishing and bookselling.
Divided by countries like 930–999.

.5 Publishing and bookselling.

.51 Selection of mss.
For Freedom of press *vs.* censorship, see 323; Morals of press, 179.1.

.52 Relations to authors. Copyright payments. Prices of mss. bought.

.53 Size, paper, type, illustrations, binding.

.54 Cost of manufacture. Retail prices and discounts to dealers.

.55 Advertising, press copies and notices. See 659, Advertising.

.56 Retail bookselling. Prices and discounts to buyers.

.57 Subscription book publishing. Canvassing.

.58 Publishing societies.

.59 Publishing by governments, institutions, etc.

.6 Copyright. Literary property.

.61 Perpetual or common law right. Including ethics of copyright.

.62 Copyright in other matter than books. Music, mss, lectures, trademarks.

.63 International copyright. See also 341.5, International private law.

.64–.69 Copyright in special countries. Divided like 940–999.

656 Transportation. Railroading, etc.

657 Book-keeping. Accounts.

658 Business manuals. Methods. Tables.

659 Advertising and other topics.

.1 Advertising.

660 Chemical Technology.

.1, ; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Technology; .9, History of Chemical Technology.

661 Chemicals.

.1 Chemical Elements. Divided like 546.
.2 Acids. Sulphuric, Nitric, etc.
.3 Alkalies. Potash, Soda, Ammonia.
.4 Salts. For Common Salt see 664.4.
.5 Ammonia Salts.
.6 Sulphates and Nitrates.
.7 Cyanides.
.8

662 Pyrotechnics, Explosives, Matches, etc.

.1 Pyrotechnics.
.2 Explosives. See Blasting 622.23; Ordnance 623.4.
.3 Gunpowder.
.4 Fuses. Percussion Caps.
.5 Matches.
.6 Fuel. Coal, peat, natural gas, etc.
.7 Charcoal. Coke. See also 644.22 Domestic economy; 669.8, Metallurgy.
.8 Artificial fuel. See also 644.2 Domestic economy; 669.8, Metallurgy.
.9

663 Beverages. See also 178, Temperance; 614.35, Adulterations.

.1 Fermented.
.2 Wine.
.3 Brewed.
.4 Beer.
.5 Distilled.
.6 Artificial mineral waters. Soda water.
.7
.8 Mixing drinks. Bar-keepers' manuals.
.9 Chocolate. Cocoa. Commercial mixing of teas, coffees, etc.

664 Foods.

For Adulterations see 614.31, Public health. See also 641 and 643, Domestic economy.

.1 Sugar, molasses, glucose, etc.
.2 Starch, tapioca, sago, etc.
.3 Artificial butter. Oleomargarine. Lard, compound lard.
For butter, milk, and cheese see 637, Dairy.
.4 Salt.
.5 Spices. Condiments.
.6 Yeast. Baking powder.
For Bread see 641, Cookery.
.7
.8 Preservation of fruits and vegetables.
.9 " " meat and fish.

665 Oils. Gases. Candles. Lamps.

.1 Candles. Torches.
.2 Animal oils and fats. See also 664.3, Foods.
.3 Vegetable oils and fats.
.4 Mineral oils. Paraffine. Ozocerite. Asphaltum.
.5 Petroleum. Kerosene.
.6 Lamps. See also 644.32 Domestic economy.
.7 Illuminating gases. Calcium light.
.8 Other gases.
.9

666 Ceramics. Glass, etc.

.1 Glass. See also 748, Stained glass.
.2 Enamel.
.3 Ceramics. See also 738, Pottery, porcelain.
.4 Clay. See also 553.61, Economic geology.
.5 Porcelain.
.6 Stoneware. Earthenware. Pottery.
.7 Bricks. Tiles. See also 691.4, Building materials; 695.3, Roofing.
.8 Artificial stone. See also 691.3, Building materials.
.9 Cements. Limes. Mortars. See also 691.5, Building materials.

667 Bleaching, dyeing, etc.

.1 Bleaching.
.2 Dyeing. Artificial colors. Silk and wool.
.3 Cotton dyeing and calico printing.
.4 Inks. Writing inks. Indelible inks.
.5 Printing inks.
.6 Paints and pigments. See also 698.1, House painting; 751, Fine arts.
.7 Varnishes. Polish. Lacquer. See also 698.3, Varnishing.
.8 Japan. Blacking.
.9

668 Other organic chemical industries.

.1 Soap.
.2 Glycerine.
.3 Glue.
.4 Gums and resins.
.5 Essences, perfumery, essential oils and ethers, etc.
See also 646, Toilet.
.6 Fertilizers. See also 631, Agriculture.
.7 Distillation. Coal tar, etc.

669 Metallurgy and assaying.

History of metals goes here, not in 553, 622, nor 671.

.1 Iron and steel.
.2 Gold and silver.
.3 Copper.
.4 Lead.
.5 Zinc.
.6 Tin.
.7 Mercury and other metals.
.8 Fuels and furnaces. Slags.
.9 Assaying.

670 Manufactures.

Specific topics go where of most interest. These heads are for the *general* subject of metal, wood, etc., manufactures, and for such specific manufactures as are not of more interest elsewhere. But an account of a specific manufacture is commonly most useful with its own subject; e. g., a steam engine is certainly made of metal, but its manufacture should go under 621.1, not 672. The character of the library often decides the place of greatest interest. An agricultural library would prefer the manufacture and everything about wood churns with the dairy, 637, while a manufacturing library might prefer it with other wood manufactures in 674. A general library will incline to the special subject, as a more minute classification is thus obtained, and references under 670 answer inquiries for all the library has on the subject of brass or rubber or paper manufactures. Whether groupt by use or material, if sought from the other standpoint, the references show the resources promptly. As a rule the use is the better classification, being more minute and oftener wanted. But if the uses are various the general head is better; e. g., bells are for scores of distinct uses, but their manufacture is a unit; but all churns are for the dairy.

671 Articles made of Metals.

672 Of Iron and Steel; Stoves, Cutlery, etc.

673 Of Brass and Bronze; Bells, etc. See also 739.

674 Lumber and Articles made of Wood.

675 Leather " " " " Leather.

676 Paper " " " " Paper.

677 Cotton, Wool, Silk, Linen, etc.

678 Rubber and Articles made of Rubber.

679 Celluloid and other.

680 Mechanic Trades. Amateur Manuals.

681 Watch and Instrument-making.

682 Blacksmithing.

.1 **Horseshoeing.**

683 Lock and Gun-making.

684 Carriage and Cabinet-making.

685 Saddlery and Shoe-making. Trunks.

686 Bookbinding.

687 Clothes-making. Hats.

688

689 Other Trades.

690 Bilding

For Architectural construction, see 721

.1 Theories of construction .2 Compends, manuals .3 Dictionaries, cyclopedias .4 Essays, lectures .5 Periodicals .6 Societies, exhibitions .7 Education, study, training, apprentisship, tools and their use (for use of special tools see special trade) .8 Collections, patents, inventions .9 History of oilding construction

691 Materials Processes Preservativs

See also 620.1, Strength of Materials

.1 **Wood Creosoting, etc.**
.2 **Natural stone Paraffining, etc.**
.3 **Artificial stone Concrete**
.4 **Bricks Tiles Other ceramic products**
.5 **Lime Cement Plaster**
.6 **Glass**
.7 **Iron Steel Anti-rust processes**
.8 **Other metals**
.9 **Other materials**

692 Plans Specifications, etc.

.1 **General drawings**
.2 **Detail drawings**
.3 **Specifications**
.4 **Contracts Agreements Bids Advertisements**
.5 **Estimates Quantities Costs**
.6 **Superintendence**
.7 **Supervision of accounts**
.8 **Professional servises Fees Commissions**
.9 **Bilding laws Liabilities of architects, owners, and contractors**

693 Masonry Plastering Fireproofing

.1 **Stone construction**
.11 Bonds of stone work
.12 Cutting and dressing of stone
See 515.8 Stereotomy; 736 Stone carving
.2 **Brick construction**
.21 Bonds of brick work
.22 Adobe or Sun-dried brick, etc.
.3 **Terra cotta construction**
.4 **Hollow tile and porous terra cotta construction**
.5 **Concrete and beton construction**
.6 **Plastering**
.61 External plastering and stucco
.62 Internal plastering
.63 Ornamental plaster work
.64 Scagliola
.65 Wooden lath
.66 Metal lath (Wire, etc.)
.67 Mineral wool linings, etc.
.7
.8 **Fireproofing**
.9

694 Carpentry. Joinery. Stair-building.
.1 Wood Construction, General.
.2 Joints of Wood-work. Framing.
.3 Strengthened Beams.
.4 Posts. Columns. See 721.31.
.5 Panelled and Latticed Construction.
.6 Joinery, General. For Finishing, varnish, polish, etc., see 698.3.
.7 Ornamental Joinery. Cabinet-work.
.8 Stair-building. See 515.83, Stereotomy.
.9 Other branches. See 721.87–89.

695 Roofing. Slating. Tiling. See 721.4, Roof Constructions.
.1 Shingle.
.2 Slate.
.3 Tile.
.4 Metal. Tin. Copper. Lead. Zinc.
.5 Iron.
.6 Asphalt. Tar. Concrete. (Melted.)
.7 Felt. Asbestos. Paper. (In rolls.)
.8 Textile. Duck. Canvas.
.9 Thatch and other Coverings.

696 Plumbing. Gas and Steam-fitting, etc.
.1 Plumbing. See 628, Principles of Sanitation.
.2 Gas-fitting.
.3 Steam-fitting.
.4 Rivets and Riveted Joints.
.5 Screws and Screw Joints.
.6 Rust or Calked Joints.
.7 Anchors. Band Irons.
.8 Other branches.
.9 Plumbing Laws. See also 614.

697 Heating and Ventilation. See San. Eng., 628.8; Domestic Econ., 644.
.1 Fireplaces.
.2 Stoves.
.3 Furnaces.
.4 Hot Water, high and low pressure.
.5 Steam, high and low pressure. For Boilers, see 621.18.
.6 Gas. Coal Gas, Water Gas, Natural Gas.
.7 Electric and Other Methods.
.8 Smoke Flues and Chimneys.
.9 Ventilation. Air Ducts. Conduits. Fans.

698 Painting. Glazing. Paper-hanging.
.1 Painting. Oil.
.2 Distemper and Fresco.
.3 Varnishing. Polishing.
.4 Other Modes of Protection.
.5 Glazing. See 748, Stained Glass.
.6 Paper-hanging.
.7 Textile Hangings. Tapestry.
.8 Relief Work. Lincrusta. Stamped Leather, etc.
.9 Other branches.

699 Car and Ship Building.

Fine Arts

700 Fine Arts.

701 Philosophy. Theories. Utility. Æsthetics.
702 Compends. Outlines.
703 Dictionaries. Cyclopedias.
704 Essays. Lectures. Addresses.
705 Periodicals. Magazines. Reviews.
706 Societies. Transactions. Reports, etc.
707 Education. Study and Teaching of Art.
708 Art Galleries and Museums.
.1 American. Corcoran, Metropolitan, Boston.
.2 English. National, Hampton Court, Windsor.
.3 German. Dresden, Munich, Berlin, Vienna.
.4 French. Louvre, Luxembourg.
.5 Italian. Vatican, Sistine, Pitti, Medici, Borbonico.
.6 Spanish. Madrid, Seville.
.7 Russian. St. Petersburg, Hermitage.
.8 Scandinavian. Copenhagen.
.9 Other Countries.
709 History of Art in General. Divided like 930–999.

710 Landscape Gardening.

711 Public Parks.
712 Private Grounds. Lawns.
713 Walks. Drives.
714 Water. Fountains. Lakes.
715 Trees. Hedges. Shrubs.
See also 634.9, Forestry; 582, Botany.
716 Plants. Flowers.
.1, Plants; .2, Flowers; .3, Conservatories; .4, Window gardens; .5, Ferneries.
717 Arbors. Seats. Outlooks.
718 Monuments. Mausoleums.
719 Cemeteries. See also 393.1, Earth burial; 614.61, Public health.

720 Architecture.

.1, Theories, Esthetics, Architectonics; .2, Compends, Manuals; .3, Dictionaries, Cyclopedias; .4, Essays, Lectures; .5, Periodicals; .6, Societies; .7, Education, Study, Training, Schools of Architecture; .8, Polygraphy, Collections; .9, General History of Architecture, divided geographically like 940–999.

721 Architectural Construction.

.1 Foundations. See Bridge Engineering, 624.1, Foundations.

.11 Dimension Stone.
.12 Rubble Stone.
.13 Concrete.
.14 Sand or Gravel.
.15 Timber Gratings.
.16 Piles. Sand Piles.
.17 Sunken Wells.
.18 Sunken Tubes.
.19 Other Foundations.

.2 Walls.

.21 Wooden and Half-timbered.
.22 Stone.
.23 Artificial Stone, Concrete, Pisé, etc.
.24 Brick.
.25 Bases. Water Tables. Belt Courses.
.26 Arcades. Colonnades.
.27 Cornices.
.28 Gables and Pediments. See also 721.58, Gable Roofs.
.29 Other Walls.

.3 Piers. Columns.

.31 Wooden. See also Carpentry, 694.4.
.32 Stone.
.33 Concrete. Artificial Stone.
.34 Brick. Terra Cotta.
.35 Iron. Steel.
.36 Fire-proof. Protected.
.37
.38
.39

.4 Arched Constructions.

See 624.6, Arched Bridges; and 729.33 and 729.37, Elementary forms.

.41 Arches, Circular.
.42 Arches, other forms.
.43 Vaults, Cylindrical.
.44 Vaults, Groined.
.45 Vaults, other forms.
.46 Domes, Circular.
.47 Domes, other forms.
.48
.49

721.5 Roofs See also 695 Roof coverings; 624.9 Engineering, roofs

.51 Wooden
.52 Masonry
.53 Glass
.54 Metallic
.55 Windows Openings in roofs
.56 Roof decoration: cresting, repoussé work, colord tiles, etc. See also 695.3
.57 Spires and domes
.58 Gables See also 721.28 Gable walls
.59 Other forms of roofs

.6 Floors and flooring

.61 Wooden Construction and coverings
.62 Stone " "
.63 Brick and hollow tile " "
.64 Metallic Compound " "
.65 Composit " "
.66 Parquetry Coverings only
.67 Mosaics "
.68 Tiles See 695.3 Roofing tile
.69 Other coverings

.7 Ceilings

.71 Wooden
.72 Stone
.73 Brick or tiles with iron
.74 Metallic
.75 Concrete Plaster
.76
.77
.78
.79

For vaulted ceilings, see 721.4 and 729.34.

.8 Doors Gates Grilles Windows

.81 Doors, wooden
.82 Doors, metallic
.83 Doors, sash, lattis, screen, etc.
.84 Windows, external
.85 Windows, internal
.86 Inclosures of doors and windows
Architraves Pilasters Jambs Pediments Lintels, etc.
.87 Shutters Blinds Screens Grilles
.88 Fastenings Locks
.89 Other details

.9 Iron and composit structures

For strength of materials, see Engineering, 620.11

.91 Cast iron
.92 Wrought iron
.93 Steel
.94 Composit
.95 Iron and wood
.96 Iron and stone
.97 Iron and brick, tile, terra cotta
.98 Iron and glass
.99 Wood and glass

722 Ancient and Oriental Architecture. (Pagan.)

See also 571.8 Prehistoric Dwellings.

- .1 **Chinese. Japanese.**
- .2 **Egyptian.**
- .3 **Phenician. Tyrian. Jewish. Carthaginian. Cypriote.**
- .4 **Indian (Asiatic).**
  Hindu, Buddhist, Jaina, Himalayan, Dravidian, Chalukyan, Indo-Aryan, Burmese, Siamese, Cambodian.
- .5 **Chaldean. Assyrian. Babylonian. Ancient Persian. Sassanian.**
- .6 **Pelasgian. Etruscan.**
- .7 **Roman.** See 729.32 for Roman Orders.
- .8 **Grecian.** See 729.32 for Greek Orders.
- .9 **Other. Aztec. Peruvian. Maya. Yucatan, etc.**

723 Mediæval. (Christian. Mohammedan.)

- .1 **Early Christian.**
- .2 **Byzantine. Armenian. Russian.**
- .3 **Mohammedan. Saracenic. Moorish, Persian, Turkish, Indian.** For Ancient Indian see 722.4.
- .4 **Romanesque.**
  - .41 Scotch. Irish.
  - .42 English. Saxon. Norman.
  - .43 German. Austrian.
  - .44 French. Provençal. Norman. Angevin.
  - .45 Italian. Sicilian Norman.
  - .46 Spanish. Portuguese.
  - .47
  - .48 Danish. Swedish. Norwegian.
  - .49 Minor Countries.
- .5 **Gothic or Pointed.** Divided like 723.4.

724 Modern.

All the sub-sections of 724 are subdivided geographically like 940–999.

- .1 **Renaissance.**
- .2 **Grecian Revival.**
- .3 **Gothic Revival.**
- .4 **Victorian Gothic. Tudor.**
- .5 **Queen Anne.**
- .6 **Néo-Grec.**
- .7 **Swiss. Timber.**
- .8 **Romanesque Revival.**
- .9 **Other Styles.**

725 Public Buildings.

- .1 **Administrative. Governmental.**
  - .11 Capitols. Houses of Parliament.
  - .12 Ministries of War, State, etc.
  - .13 City and Town Halls. Bureaus. Public Offices.
  - .14 Custom Houses. Bonded Warehouses. Excise Offices.
  - .15 Court Houses. Record Offices.
  - .16 Post Offices, General and Special.
  - .17 Official Residences. Palaces of Rulers.
  - .18 Barracks. Armories. Police Stations.
  - .19 Engine Houses. Fire Alarm Stations.
- .2 **Business and Commercial.**
  - .21 Stores, Wholesale and Retail.
  - .22 Mixed Store, Office, and Apartment Buildings.
  - .23 Office Buildings. Telegraph. Insurance.
  - .24 Banks. Safe Deposit. Savings.
  - .25 Exchanges. Boards of Trade.
  - .26 Markets.
  - .27 Cattle Markets. Stock Yards.
  - .28 Abattoirs.
  - .29 Other Business Buildings.
- .3 **Transportation and Storage.**
  - .31 Railway Passenger Stations.
    - .311 Small (country) Stations.
    - .312 Large (city) "
    - .313 Union "
    - .314 Stations on two levels.
    - .315
    - .316
    - .317 Street-car Stations.
    - .318 Elevated R. R. Stations.
    - .319 Underground R. R. Stations.
  - .32 Railway Freight Houses.
  - .33 Railway Shops, Round Houses, Car Houses, Tanks, Stores.
  - .34 Dock Buildings. Wharf Boats and Houses.
  - .35 Warehouses. Cold Storage. Safe Deposit Storage.
  - .36 Elevators, Grain.
  - .37
  - .38 Garages. Livery stables.
    For private stables and garages see 728.94.
  - .39 Other.
- .4 **Manufactories.**
  - .41 Textile Factories or Mills. Wool, Cotton, Silk.
  - .42 Breweries. Malteries. Distilleries.
  - .43 Foundries. Machine Shops. Iron and Steel Works.
  - .44 Wood-working Mills. Furniture Factories.
  - .45 Carriage and Car Factories.
  - .46 Paper Mills.
  - .47 Mills for Flour, Meal, Feed, etc.
  - .48 Pottery, Glass, Terracotta, Brick Works.
  - .49 Other Manufactories.

725.5 **Hospitals and Asylums.** See also 725.6. Reformatories.
.51 Sick and Wounded. Eye and Ear. Incurables. Lying-in.
.52 Insane.
.53 Idiotic. Feeble-minded.
.54 Blind. Deaf and Dumb.
.55 Paupers. Almshouses.
.56 Aged.
.57 Children. Orphans.
.58 Foundling.
.59 Soldiers' Homes.
.6 **Prisons and Reformatories.**
.61 State Prisons. Penitentiaries.
.62 Jails. Cell Houses.
.63 Reformatories for Adults. Houses of Correction.
.64 Reform Schools.
.65 Washingtonian Homes. Inebriate Asylums.
.66
.7 **Refreshment. Baths. Parks.**
.71 Cafés. Restaurants.
.72 Saloons.
.73 Baths; Warm, Medicated, Turkish, Russian.
.74 Swimming Baths.
.75 Buildings for Watering Places, Spas, etc.
.76 Buildings for Parks.
.8 **Recreation.**
.81 Music Halls.
.82 Theatres. Opera Houses.
.83 Halls for Lectures, Readings, etc.
.84 Bowling Alleys. Billiard Saloons.
.85 Gymnasiums. Turn Halls.
.86 Skating Rinks. Bicycle Rinks.
.87 Boat Houses.
.88 Riding Halls and Schools.
.89 Shooting Galleries.
.9 **Other Public Buildings.**
.91 Exhibition Halls.
.92 Temporary Halls. Tabernacles. Wigwams.
.93 Workingmen's Clubs and Institutes.
.94

726 Ecclesiastical and Religious.

.1 **Temples.**
.2 **Mosques.**
.3 **Synagogues.**
.4 **Chapels. Sunday-school Buildings.**
.5 **Churches.**
.6 **Cathedrals.**
.7 **Monasteries. Convents. Abbeys.**
.8 **Mortuary. Cemetery Chapels. Receiving Vaults. Tombs**
.9 **Other. Y. M. C. A., etc.**

727 Educational and Scientific.

.1 **Schools.**
Study and Recitation Rooms. Not including dormitory or boarding.
.2 **Academies. Seminaries. Boarding Schools.**
.3 **Colleges. Universities.**
.4 **Professional and Technical Schools. Law, Theology, etc.**
.5 **Laboratories; Physical, Chemical** see 542.1, **Biological, etc. Zoölogical and Botanic Gardens** see also 590.7 and 580.7.
.6 **Museums. Herbariums** see 580.7.
.7 **Art Galleries. Studios.**
.8 **Libraries.** See 022, Library Buildings.
.9 **Other. Learned Societies, etc.**

728 Residences.

.1 **Tenement Houses.**
.11 City Homes of Poor.
.12 Country "
.13 Cités Ouvrières.
.2 **Apartment Houses. Flats. Family Hotels.**
.3 **City Houses. Mansions. Palaces.**
.31 Between party-walls. Stone.
.32 " " Brick.
.33 " " Partly wood.
.34 Semi-detached, including end houses in city blocks. Stone.
.35 " " " Brick.
.36 " " " Partly wood.
.37 Detached. Stone.
.38 " Brick.
.39 " Partly wood.
.4 **Club Houses. Buildings for Secret Societies.**
.5 **Hotels. Inns.**
.51 City Hotels.
.52 Summer Resorts.
.53 Country Inns.
.6 **Village and Country Homes.**
.61 Village Dwellings. On small lots.
.62 Stone.
.63 Brick.
.64 Concrete or stucco.
.65 Part masonry, part wood.
.66 All wood.
.67 Farm Houses.
.68 Laborers' Cottages.
.7 **Seaside and Mountain Cottages. Chalets.**
.8 **Country Seats.**
.81 Castles.
.82 Chateaux.
.83 Manor Houses.
.84 Villas.

728.9 **Out-Buildings.**

.91 Porter's Lodges.
.92 Servants' Quarters.
.93 Kitchens and Laundries.
.94 Stables. Carriage Houses.
.95 Barns. Granaries.
.96 Dairies.
.97 Ice Houses.
.98 Conservatories. Green Houses. Graperies.
.99 Other.

729 Architectural Design and Decoration.

For decorative illumination see 745.

.1 **The Elevation.**

.11 Composition.
.12 Distribution.
.13 Proportion.
.14 Light and Shade.
.15 Perspective effect.
.16
.17
.18
.19

For projection of shadows and graphics of light and shadow see 515.63 and 515.7.

.2 **The Plan.**

.21 Elements required.
.22 Distribution.
.23 Proportion.
.24
.25
.26
.27
.28
.29

.3 **Elementary Forms.** For construction of these forms see 721.

.31 Walls. Mould ngs. Cornices.
.32 Piers, Columns, Pilasters, Pedestals and the Orders. Colonnades.
.33 Arches and Arcades.
.34 Vaults and Domes.
.35 Roofs. Spires. Dormers.
.36 Towers.
.37 Gables and Pediments.
.38 Doors and Windows. Bays. Oriels.
.39 Stairs and Balustrades. See also 515.83, Stereotomy; 694.8, Stairbuilding

.4 **Painted Decoration.**

See also 729.7. Mosaic.

.41 Vegetable forms.
.42 Animal forms.
.43 Grotesque forms.
.44 Conventional and Geometric Forms.
.45 Painted Moldings.
.46 Painted Friezes and Panels.
.47 Painted Columns and Pilasters.
.48 Painted Ceilings and Vaults.
.49 Painted Walls.

729.5 **Decoration in Relief.** For Bas Relief and Figure Carving see 730.

.51 Vegetable forms.
.52 Animal forms.
.53 Grotesque forms.
.54 Conventional and Geometric forms.
.55 Carved Moldings.
.56 Carved Friezes and Panels.
.57 Carved Columns and Pilasters.
.58 Carved Ceilings and Vaults.
.59 Other Carved Ornament.

.6 **Incrustation and Veneering.**

.61 Of External Walls (in brick, stone, or marble, tiles, etc.).
.62 Of Interiors.
.63 Intarsia and Inlay.
.64 Niello-work.
.65 Enamel Decoration.
.66
.67
.68
.69

.7 **Mosaic.**

.71 Mosaic Ceilings.
.72 Mosaic Walls.
.73 Mosaic Floors.
.74 Other Mosaic designs.
.75
.76
.77
.78
.79

.8 **Stained Glass Design.** For technical processes see 666.1; for history see 748.

.81 Geometric Windows.
.82 Medallion Windows.
.83 Canopy Windows.
.84 Figure Windows.
.85 Mosaic Windows.
.86 Other kinds of stained glass.
.87
.88
.89

.9 **Architectural Accessories and Fixed Furniture.**

.91 Altars.
.92 Pulpits. Tribunes.
.93 Dais. Thrones.
.94 Buffets.
.95 Mantels. Overmantels.
.96 Screens. Rood Screen. Reredos.
.97
.98
.99

730 Sculpture.

731 Materials and Methods.

732 Ancient.

733 Greek and Roman.

734 Medieval.

735 Modern.

736 Carving. Seals. Dies. Gems. Cameos.

737 Numismatics. Coins. Medals.

738 Pottery. Porcelain.

739 Bronzes. Brasses. Bric-a-brac.

740 Drawing. Decoration. Design.

741 Free-hand. Crayon. Sketching from Nature. Caricatures. Cartoons.

Collections on any subject go with that subject with reference from 741.

742 Perspective. See also 515.6.

743 Art Anatomy. Life School.

744 Mathematical and Scientific Drawing. See 515.

745 Ornamental Design. Woven Fabrics. Carpets. Wall Paper, etc.

746 Art Needlework. Fancy Work.

747 Interior Decoration. Distemper. Fresco. Polychrome.

748 Stained and Iridescent Glass. For Leading, see 698.5.

749 Artistic Furniture. Fireplaces. Frames, etc.

750 Painting.

751 Materials and Methods.

752 Color. See 535.6, Optics.

753 Epic. Mythic. Idealistic. See 759.3, German School.

754 Genre. Still Life. See 759.4, French; and 759.9, Belgian.

755 Religious. Ecclesiastic. See 759.5, Italian; and 759.6, Spanish

756 Historical. Battle Scenes.

757 Portrait.

758 Landscape and Marine. Animals. Flowers.

759 Various Schools of Painting.

1, American; 2, English; 3, German; 4, French; 5, Italian; 6, Spanish; 7, Slavic; 8, Scandinavian; 9, Other Schools.

760 Engraving.

761 Wood.

762 Copper and Steel.

763 Lithography.

764 Chromolithography.

765 Line and Stipple.

766 Mezzotint and Aquatint.

767 Etching. Dry Point.

768 Bank Note and Machine.

769 Collections of Engravings.

770 Photography.

771 Materials. Photographic Chemistry.

772 Silver Processes. Daguerreotype. Talbotype. Collodion Process. Ambrotype, etc. Dry-Plate Processes.

773 Gelatine and Pigment Processes. Woodburytype. Carbon Process. Lambertype. Autotype, etc.

774 Gelatine and Printer's Ink Processes. Albertype. Heliotype. Artotype, etc.

775 Photo-lithography, etc.

776 Photo-zincography, etc.

777 Photo-engraving and Photo-electrotyping.

778 Special Applications. See 522.63, Astronomy. See 578, Microscopy.

779 Collections of Photographs.

780 Music.

.1, Philosophy and Æsthetics of Music; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Education, Conservatories; .8, Polygraphy, Libraries; .9, History, divided by countries, like 930–999. All heads include the music itself and everything about it: Score, Libretto, History, Criticism, etc.

781 Theory of Music.

.1 Mathematical and Physical.

.2 Elementary and General.

.3 Harmony. Thoroughbass.

.4 Counterpoint.

.5 Musical Form.

.6 Composition and Instrumentation.

.7 Oriental Theories and Forms. Russian Music.

.8 Ancient Grecian Theories, Modes, and Forms.

.9

782 Dramatic Music.

.1 Grand Opera.

.2 Epic. Wagnerian.

.3 Other German Grand Opera.

.4 French Grand Opera.

.5 Italian Grand Opera.

.6 Comic and Satirical.

.7 Opera Bouffe.

.8 Operettas and Cantatas. See 783.4.

.9 Pantomimes. Masks, etc.

783 Sacred Music. See 245, Hymnology, Sacred Poetry for hymns alone; if with tunes they go in 783.9; 786.8, Organ; 246.7–8, Evangelistic use and Eucharistic music; 264.2, Public Worship.

.1 Organ and Orchestral. Accompaniment.

.2 Cathedral Services. Masses. Vespers, etc.

.21, Mass. Communion Services; .22, Common of the Mass; Kyrie, Gloria in Excelsis, Credo, Benedictus, Agnus Dei; .23, Proper of the Season; Offertory, Sequence, Gradual, Tract; .24, Choral Service; Antiphonal, Responsive; .25, Plain Song; .26, Litanies; .27, Lenten and Penitential; Good Friday, "Reproaches"; .28, Festival; Christmas, Easter, etc.; .29, Processional. Recessional.

.3 Oratorio. Passion Music.

.4 Anthem. Motet. Sacred Cantata. Polyphonic School, Palestrina. 16th Century.

.5 Chant. Gregorian. Anglican.

.6 Chorale. Tune. Carol.

.7 Evangelistic. Mission. Revival. Sunday School.

.8 Choir. Men and Boys. Quartet. Chorus.

.9 Congregational Singing. Psalmody. Hymnody.

784 Vocal Music.

.1 Glee. Madrigal. Round. Catch.

.2 Aria. Cavatina. Recitative. e. g. in Oratorio, Mass, Opera.

.3 Ballad and Song. Romantic. Idyllic. Sentimental. e. g. Modern German.

.4 Popular Ballads. Volkslied e. g. Irish, Scotch, etc.

.5 Festival. e. g. Sængerbund. Eisteddfod. Competitive.

.6 College, Society Songs, and Choruses.

.7 Negro Minstrelsy. Plantation Songs.

.8 Collected Songs.

.81 Solos; .82, Duets; .83, Trios; .84, Quartets; .85, Other Part Songs; .86, Choruses; .87, Collections for Male Voices; .88, Collections for Female Voices; .89, Other Special Collections.

.9 Vocal Hygiene, Culture, Development, and Methods. Tonic-Sol-Fa.

785 Orchestral Music.

For Dramatic Orchestral Music, see 782; Sacred, 783.1.

.1 Symphony, Three or more movements; e. g. Adagio, Andante, Allegro, Allegretto, Scherzo, Finale, etc.

.2 Dramatic, Illustrative, Descriptive, Imitative.
e. g. Mendelssohn's Mid-Summer Night's Dream.

.3 Romantic. Idyllic.

.4 Program Music.

.5 Overture. e. g. Beethoven's "Leonores.

.6 Concerto. Orchestral with Solo Instrument.

.7 Chamber Music.

.8 Suite.

.9 Arrangements. Transcriptions. Pot Pourris.

786 Piano and Organ.

.1 Piano. History.

.2 Manufacture. Tuning. Temperament.

.3 Instruction.

.4 Piano Music. General Collections. For Piano Concerto. see 785.6.

.41 Sonata. Sonatina. Rondo.

.42 Fantasia. Arabesque.

.43 Nocturne. Meditation. Songs without Words. Romantic. Descriptive.

.44 March and March-form. Polonaise. Polka. Mazourka.

.45 Dance-form. National. Classical. Idealized.

.46 Modern Dance Music. Society. Festive.

.47 Etudes. Artistic. For Etudes for Instruction, see 786.3.

.48 Variations. Transcriptions.

.49 Arrangements. Four Hands and more. e. g. Orchestral Music arranged for Piano.

786.5 Organ. History.

.6 Building.

.7 Instruction.

.8 Organ Music. See 783, Sacred Music.

.81 Sonata. .82 Fugue. .83 Preludes. .84 Interludes. .85 Postludes. .86 Offertories. .87 Voluntaries. Improvisation. .88 Organ and Piano. .89 Organ, Piano, and Orchestra.

.9 Cabinet Organ. Melodeon.

787 Stringed Instruments.

Including with each, History, Manufacture, Instruction, Music, etc. Music for two instruments is put with the one most prominent in the composition.

Bowed.

.1 Violin.

.2 Viola.

.3 Violoncello.

.4 Double Bass. Contra Bass.

Plectral.

.5 Harp.

.6 Guitar. Lute. Mandolin, etc.

.7 Banjo.

.8 Zither.

.9 Other Stringed Instruments. Harpsichord.

788 Wind Instruments.

Including with each, History, Manufacture, Instruction, Music, etc.

Brass.

.1 Trumpet. Slide and Valve.

.2 Trombone.

.3 Cornet.

.4 Horns and other Brass Wind Instruments.

.41 French Horn.

.42 Saxhorn.

.43 Saxophone.

.44 Euphonium.

.45 Ophicleide.

.46 Key Bugle.

.47 Valve Bugle.

.48 Bass. Tuba and Contrabass Tuba. Serpent.

.49 Other.

Wood. Flute Group.

.5 Flute. Waldflute. Piccolo. Fife. Flageolet.

Wood. Reed Group.

.6 Clarinet. Bass Clarinet. Bassethorn.

.7 Oboe. D'amore. Da Caccia. Cor Anglais.

.8 Bassoon. Double Bassoon. Bombardon.

.9 Other Reed Wind Instruments. Bagpipe.

789 Percussion and Mechanical Instruments.

Percussion.

.1 Drum.
.2 Cymbals.
.3 Triangle.
.4 Tambourine. Castanets. Bones.
.5 Bells. Chimes. Carillon.
.6 Other Percussion Instruments. Xylophone.

Mechanical.

.7 Orchestrion.
.8 Music Box.
.9 Other Mechanical Instruments.

790 Amusements.

For Ethics of amusements, see 175.

791 Public Entertainment.

Concert, Panorama, Circus, Menagerie, Summer Resort, Garden, Rink, Museum, Fair Festival.

792 Theater. Pantomime. Opera. See also 782, Dramatic music.

793 In-door Amusements.

Private Theatricals, Tableaux, Charades, Dancing.

794 Games of Skill.

Chess, Checkers, Billiards, Bowling, Bagatelle.

795 Games of Chance.

Cards, Dice, Backgammon, Dominoes.

796 Out-door Sports.

Children's Sports, Athletic Sports, Coasting, Skating, Cycling, Quoits, Archery, Croquet. Lawn Tennis.

797 Boating and Ball.

Rowing, Yachting, Base-ball, Foot-ball, Cricket, Polo.

798 Horsemanship and Racing.

799 Fishing, Hunting, Target Shooting.

Literature

The classification of literature is by *language* not country, except that North and South American are separated from other English. Canadian French goes with 840; Australian and Indian English with 820; South American Spanish with 860, etc. Numbers assigned to individual authors include only their *literary* works of that section and complete works which cannot be divided. Books on other subjects go with their proper subjects, unless a "special library" attracts all the authors' works, lives, etc. An author writing in two periods has all his books put in the one where most of them belong.

800 Literature. General Works.

801 Philosophy. Theories. Literary Æsthetics.

802 Compends. Outlines.

803 Dictionaries. Cyclopedias.

804 Essays. Lectures. Addresses.

805 Periodicals. Magazines. Reviews.

806 Societies. Transactions. Reports, etc.

807 Study and Teaching of Literature.

808 Rhetoric. Treatises. Collections.

Divided .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; see also 784.9, Vocal Culture; .6, Letters, Epistolography; .7, Satire, Humor; .8, Collections too general to go with any one language, e. g. a book of Quotations from many languages.
These heads, and the same under 809, include only works about Poetry, etc., regardless of language.

809 History of Literature in general. Including general histories of books and knowledge: e. g. Hallam's Literature of Middle ages.

Divided like 808. .1, Poetry; .2, Drama: .3, Fiction, etc.

810 American Literature.

Includes Canadian English.

.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on American Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of American Literature.

811 American Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections: 09, History of American Poetry.

.1 **Colonial, 1607–1776.**

.11	Sandys, George	1577–1644.
.12	Bradstreet, Anne	1612–1672.
.13	Wigglesworth, Michael	1631–1705.
.14	Green, Joseph	1706–1780.
.15	Livingston, William	1723–1790.
.16	Ferguson, Elizabeth	1739–1801.

.2 **Post-Revolutionary, 1776–1830.**

.21	Trumbull, John	1750–1831.
.22	Dwight, Timothy	1752–1817.
.23	Barlow, Joel	1755–1812.
.24	Freneau, Philip	1752–1832.
.25	Alsop, Richard	1761–1841.
.26	Pierpont, John	1785–1866.
.27	Dana, Richard Henry	1787–1879.
.28	Sprague, Charles	1791–1875.
.29	Minor Poets.	

811.3 **Middle 19th Century, 1830–1861.**

.31	Halleck, Fitz-Greene	1790–1867.
.32	Poe, Edgar Allan	1809–1849.
.33	**Bryant, William Cullen**	1794–1878.
.34	**Longfellow, Henry Wadsworth**	1807–1882.
.35	Read, Thomas Buchanan	1822–1872.
.36	**Whittier, John Greenleaf**	1807–1892.
.37	**Lowell, James Russell**	1819–1891.
.38	Whitman, Walt	1819–1892.
.39		

.4 **Later 19th Century, 1861–**

.41	Stoddard, Richard Henry	1825–
.42	Hayne, Paul Hamilton	1831–1886.
.43	Stedman, Edmund Clarence	1833–1908.
.44	Winter, William	1836–
.45	Miller, Cincinnatus Hiner, (Joaquin.)	1841–
.46	Taylor, Bayard	1825–1878.
.47		
.48		
.49		

812 American Drama.

.1 **Colonial, 1607–1776.**

.11	Warren, Mercy	1728–1814.
.12	Godfrey, Thomas	1736–1763.
.13		

.2 **Post-Revolutionary, 1776–1830.**

.21	Tyler, Royall	1757–1826.
.22	Dunlap, William	1766–1839.
.23	Hillhouse, James Abraham	1789–1841.
.24	Ingersoll, Charles Jared	1782–1862.
.25		

.3 **Middle 19th Century, 1830–1861.**

.31	Ritchie, Anna Cora Mowatt	1818–1870.
.32	Mathews, Cornelius	1817–1889.
.33	Boker, George Henry	1823–1890.
.34		

.4 **Later 19th Century, 1861–**

.41

813 American Fiction.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Brackenridge, Hugh Henry	1748–1816.
.22	Rowson, Susanna	1762–1824.
.23	Brown, Charles Brockden	1771–1810.
.24	**Cooper, James Fenimore**	1789–1851.
.25	Ware, William	1797–1852.
.26	Neal, John	1793–1876
.27		
.28		
.29		

813.3 **Middle 19th Century, 1830–1861.**

.31	Thompson, Daniel Pierce	1795–1868.
.32	Kennedy, John Pendleton	1795–1870.
.33	**Hawthorne, Nathaniel**	1804–1864.
.34	Judd, Sylvester	1813–1853.
.35	Simms, William Gilmore	1806–1870.
.36	Melville, Herman	1819–1891.
.37	Stowe, Harriet Beecher	1812–1896.
.38		
.39		

.4 **Later 19th Century, 1861–**

.41	Alcott, Louisa May	1832–1888.
.42	Eggleston, Edward	1837–1902.
.43	Howells, William Dean	1837–
.44	Aldrich, Thomas Bailey	1836–1907.
.45	Harte, Francis Bret	1839–1902.
.46	James, Henry	1843–
.47	Hawthorne, Julian	1846–
.48	Burnett, Frances Hodgson	1849–
.49	Minor Novelists.	

814 American Essays.

.1 **Colonial, 1607–1776.**

.2 **Post-Revolutionary, 1776–1830.**

.21	Rush, Benjamin	1745–1813.
.22	Webster, Noah	1758–1843.
.23	Channing, William Ellery	1780–1842.

.3 **Middle 19th Century, 1830–1861.**

.31	Ossoli, Margaret Fuller	1810–1850.	
.32	Giles, Henry	1809–1882.	
.33	Tuckerman, Henry Theodore	1813–1871.	
.34	**Holland, Josiah Gilbert**	1819–1881.	
.35	Whipple, Edwin Percy	1819–1886.	
.36	Emerson, Ralph Waldo	1803–1882.	See also 191.3.
.37	Curtis, George William	1824–1892	

.4 **Later 19th Century, 1861–**

.41	Burroughs, John	1837–
.42		
.43		
.44		

815 American Oratory.

.1 **Colonial, 1607–1776.**

.11

.12

.2 **Post-Revolutionary, 1776–1830.**

.21	Hamilton, Alexander	1757–1804.
.22	Ames, Fisher	1758–1808.
.23	Wirt, William	1772–1834.
.24	Randolph, John	1773–1833.
.25	Clay, Henry	1777–1852.
.26	Calhoun, John Caldwell	1782–1850.
.27	Webster, Daniel	1782–1852.
.28		
.29		

815.3 **Middle 19th Century, 1830–1861.**

.31	Everett, Edward.	1794–1865.
.32	Choate, Rufus.	1799–1859.
.33	Sumner, Charles.	1811–1874.
.34	Phillips, Wendell.	1811–1884.
.35	Chapin, Edwin Hubbell.	1814–1880.
.36	Beecher, Henry Ward.	1813–1887.

.4 **Later 19th Century, 1861–**

.41

.42

.43

816 American Letters.

Subdivided by periods, like 811

817 American Satire and Humor.

.1 **Colonial, 1607–1776.**

.11	Ward, Nathaniel.	1570–1653.
.12	Alsop, George.	1638– ?
.13	Byles, Mather.	1706–1788.
.14	Hopkinson, Francis.	1737–1791.
.15	Peters, Samuel Andrew.	1735–1826.

.2 **Post-Revolutionary, 1776–1830.**

.21	Story, Isaac.	1774–1803.
.22	Fessenden, Thomas Green.	1771–1837.
.23	Paulding, James Kirke.	1779–1860.
.24	**Irving, Washington.**	1783–1859.
.25	Verplanck, Gulian Crommelin.	1786–1870.

.26

.27

.3 **Middle 19th Century, 1830–1861.**

.31	Neal, Joseph Clay.	1807–1847.
.32	**Holmes, Oliver Wendell.**	1809–1894.
.33	Shelton, Frederick William.	1814–1881.
.34	Shillaber, B. P. (Mrs. Partington.)	1814–1890.
.35	Saxe, John Godfrey.	1816–1887.
.36	Cozzens, Frederick Swartout.	1818–1869.
.37	Browne, C. F., (Artemus Ward.)	1834–1867.
.38	Haliburton, Thomas Chandler.	1796–1865.
.39	Minor Satirists and Humorists.	

.4 **Later 19th Century, 1861–**

.41	Warner, Charles Dudley.	1829–1900.
.42	Locke, David Ross, (Nasby.)	1833–1888.
.43	Burdette, Robert J.	1844–
.44	Clemens, S. L., (Mark Twain.)	1835–1910.
.45	Carleton, William.	1845–
.46	Shaw, Henry W., (Josh Billings.)	1818–1885.

.47

818 American Miscellany.

.3 **Middle 19th Century, 1830–1861.**

.31	Thoreau, Henry David.	1817–1862.
.32	Mitchell, Donald Grant, (Ik Marvel.)	1822–1908.

820 English Literature.

820.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays on English Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

821 English Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .08, Collections; .09, History of English Poetry.

.1 **Early English, 1066–1400.**

.11	Layamon	1150–1207.
.12	Ormin	1187–1237.
.13	Robert of Gloucester	1245–1307.
.14	Minot, Lawrence	1313–1352.
.15	Langland, William	1332–1399.
.16	Barbour, John	1316–1395.
.17	**Chaucer, Geoffrey**	1340–1400.
.18	Gower, John	1325–1408.
.19	Minor Writers.	

.2 **Pre-Elizabethan, 1400–1558.**

.21	Lydgate, John	1369–1461.
.22	Skelton, John	1460–1529.
.23	Dunbar, William	1460–1520.
.24	Douglas, Gavin	1474–1522.
.25	Hawes, Stephen	1483–1509.
.26	Lyndsay, Sir David	1490–1555.
.27	Wyatt, Sir Thomas	1503–1542.
.28	Surrey, Henry Howard, earl of	1517–1547.
.29	Minor Writers.	

.3 **Elizabethan, 1558–1625.**

.31	**Spenser, Edmund**	1553–1599.
.32	Sidney, Sir Philip	1554–1586.
.33	Daniel, Samuel	1562–1619.
.34	Drayton, Michael	1563–1631.
.35	Davies, John	1569–1626.
.36	Drummond, William	1585–1649.
.37	Fletcher, Giles and Phineas	1585–1650.
.38	Herbert, George	1593–1632.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625–1702.**

.41	Suckling, Sir John	1609–1642.
.42	Crashaw, Richard	1616–1650.
.43	Herrick, Robert	1591–1674.
.44	Waller, Edmund	1605–1687.
.45	Lovelace, Richard	1618–1658.
.46	Cowley, Abraham	1618–1667.
.47	**Milton, John**	1608–1674.
.48	**Dryden, John**	1631–1700.
.49	Minor Writers.	

821.5 **Queen Anne,** Early 18th Century, **1702–1745.**

.51	Prior, Matthew	1664–1721.	
.52	Parnell, Thomas	1679–1717.	
.53	**Pope, Alexander**	1688–1744.	See also 827.55.
.54	Ramsay, Allan	1686–1758.	
.55	Young, Edward	1684–1765.	
.56	Thomson, James	1700–1748.	
.57	Collins, William	1721–1759.	
.58	Shenstone, William	1714–1763.	
.59	Minor Writers.		

.6 **Later 18th Century,** Pre-Revolutionary, **1745–1800.**

.61	Gray. Thomas	1716–1771.	
.62	Akenside, Mark	1721–1770.	
.63	Chatterton, Thomas	1752–1770.	
.64	Goldsmith, Oliver	1728–1774.	See also 823.64 and 824.56.
.65	Cowper, William	1731–1800.	
.66	Macpherson, James	1738–1796.	
.67	**Burns, Robert**	1759–1796.	
.68	White, Henry Kirke	1785–1806.	
.69	Minor Writers.		

.7 **Early 19th Century,** Post-Revolutionary, **1800–1837.**

.71	Wordsworth, William	1770–1850.	
.72	Coleridge, Samuel Taylor	1772–1834.	
.73	Southey, Robert	1774–1843.	
.74	Scott, Sir Walter	1771–1832.	See also 823.73.
.75	Moore, Thomas	1779–1852.	
.76	Byron, Geo. Gordon Noel	1788–1824.	
.77	Shelley, Percy Bysshe	1792–1822.	
.78	Keats, John	1795–1821.	
.79	Minor Writers.		

.8 **Victorian Period, 1837–**

.81	Tennyson, Alfred	1809–1892.
.82	Browning, Elizabeth Barrett	1809–1861.
.83	Browning, Robert	1812–1889.
.84	Rossetti, Dante Gabriel	1828–1882
.85	Morris, William	1834–1896.
.86	Swinburne, Algernon Charles	1837–1909.
.87		
.88		
.89	Minor Writers.	

822 English Drama.

.1 **Early English, 1066-1400.**

.11	Chester Plays.
.12	Coventry Plays.
.13	Townley Plays.

.2 **Pre-Elizabethan, 1400-1558.**

.21	Heywood, John	1506–1565.
.22	Udall, Nicholas	1505–1564.
.23	Bale, John	1495–1563.

.3 **Elizabethan, 1558-1625.**

.31	Greene, Robert	1561–1592.
.32	Marlowe, Christopher	1564–1593.
.33	**Shakespere, William**	1564–1616.
.34	**Jonson, Ben**	1574–1637.
.35	**Beaumont, Francis and Fletcher, John**	1576–1625.
.36	Webster, John	1582–1652.
.37	Massinger, Philip	1584–1640.
.38	Ford, John	1586–1639.
.39	Minor Writers.	

.4 **Post-Elizabethan, 1625-1702.**

.41	Davenant, Sir William	1605–1668.
.42	Etherege, Sir George	1637–1688.
.43	Crowne, John	1644–1699.
.44	Wycherly, William	1640–1715.
.45	Otway, Thomas	1651–1685.
.46	**Congreve, William**	1670–1729.
.47	Vanbrugh, Sir John	1666–1726.
.48	Farquhar, George	1678–1707.
.49	Minor Writers.	

.5 **Queen Anne,** Early 18th Century, **1702-1745.**

.51	Dennis, John	1657–1734.
.52	Southerne, Thomas	1660–1746.
.53	Centlivre, Mrs. Susannah (Freeman)	1668–1723.
.54	Cibber, Colley	1671–1757.
.55	Rowe, Nicholas	1674–1718.
.56	Gay, John	1688–1732.
.57	Lillo, George	1693–1739.
.58		
.59	Minor Writers.	

.6 **Later 18th Century, 1745-1800.**

.61	Garrick, David	1716–1779.	
.62	Foote, Samuel	1721–1777.	
.63	Colman, George, the elder	1732–1794.	
.64	Home, John	1724–1808.	
.65	Cumberland, Richard	1732–1811.	
.66	**Sheridan, Richard Brinsley**	1751–1816.	See also 825.64.
.67	Inchbald, Mrs. Elizabeth (Simpson)	1753–1821.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800-1837.**

.71	Baillie, Joanna	1762–1851.
.72	Knowles, James Sheridan	1784–1862.

.8 **Victorian Period, 1837-**

823 English Fiction.

.1 **Early English, 1066–1400.**

.2 **Pre-Elizabethan,** (More's Utopia,) 1400–1558.

.3 **Elizabethan,** (Lyly's Euphues,) 1558–1625.

.4 **Post-Elizabethan, 1625–1702.**

.41	Harrington, James	1611–1677.	
.42	**Bunyan, John**	1628–1688.	
.43	Mackenzie, George	1636–1691.	
.44	Behn, Aphra	1640–1689.	

.5 **Queen Anne, 1702–1745.**

.51	DeFoe, Daniel	1661–1731.	
.52	Fielding, Henry	1707–1754.	

.6 **Later 18th Century, 1745–1800.**

.61	Richardson, Samuel	1689–1761.	
.62	Sterne, Laurence	1713–1768.	
.63	Smollett, Tobias George	1721–1771.	
.64	**Goldsmith, Oliver**	1728–1774.	See also 821.64 and 824.66.
.65	Mackenzie, Henry	1745–1831.	
.66	Arblay, Frances (Burney), madame d'	1752–1840.	
.67			
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Lewis, Matthew Gregory	1775–1818.	
.72	Edgeworth, Maria	1767–1849.	
.73	**Scott, Sir Walter**	1771–1832.	See also 821.74.
.74	Austen, Jane	1775–1817.	
.75	Porter, Jane	1776–1850.	
.76	Peacock, Thomas Love	1785–1866	
.77	Galt, John	1779–1839.	
.78	Marryat, Frederick	1792–1848.	
.79	Minor Writers.		

.8 **Victorian Period, 1837–**

.81	Brontë, Charlotte	1816–1855.	
.82	**Thackeray, William Makepeace**	1811–1863.	
.83	**Dickens, Charles**	1812–1870.	
.84	Lytton, Edw. Geo. Bulwer, 1st baron	1803–1873.	
.85	Kingsley, Charles	1819–1875.	
.86	Beaconsfield, Benjamin Disraeli, 1st earl of	1805–1881.	
.87	Trollope, Anthony	1815–1882.	
.88	**Eliot, George**	1819–1880.	
89	Minor Writers.		

824 English Essays.

.3 **Elizabethan,** (Bacon,) **1558–1625.**

.4 **Post-Elizabethan,** (Locke), **1625–1702.**

.5 **Queen Anne, 1702–1745.**

.51	Shaftsbury, Anthony Ashley Cooper, 3d earl of	1671–1713.	
.52	**Addison, Joseph**	1672–1719.	
.53	Steele, Sir Richard	1671–1729.	
.54	Budgell, Eustace	1686–1737.	
.55			
.56			
.57			
.58			
.59			

.6 **Later 18th Century, 1745–1800.**

.61	Moore, Edward	1712–1757.	
.62	Kames, Henry Home, lord	1696–1782.	
.63	**Johnson, Samuel**	1709–1784.	
.64	Hume, David	1711–1776.	See also 192 4.
.65	Hawkesworth, John	1715–1773.	
.66	Goldsmith, Oliver	1728–1774.	See also 821.64 and 823.64
.67	Gibbon, Edward	1737–1794.	
.68			
.69	Minor Writers.		

.7 **Early 19th Century, 1800–1837.**

.71	Mackintosh, Sir James	1765–1832.	
.72	Smith, Sydney	1771–1845.	
.73	Jeffrey, Francis, lord	1773–1850.	
.74	Brougham, Henry, 1st baron	1778–1868.	
.75	**Lamb, Charles**	1775–1834.	
.76	Hazlitt, William	1778–1830.	
.77	Hunt, Leigh	1784–1859.	
.78			
.79	Minor Writers.		

.8 **Victorian Period, 1837–.**

.81	De Quincey, Thomas	1785–1859.	
.82	Carlyle, Thomas	1795–1881.	
.83	Macaulay, Thomas Babington, 1st baron	1800–1859.	
.84	Helps, Sir Arthur	1817–1875	
.85	Arnold, Matthew	1822–88	
.86	Ruskin, John	1819–1900	
.87			
.88			
.89	Minor Writers.		

825 English Oratory. For Speakers see 808.5.

Subdivided by periods like 821.

.6 Later 18th Century, 1745–1800.

.61 Chatham, William Pitt, 1st earl of 1708–1778.
.62 **Burke, Edmund** 1729–1797.
.63 Fox, Charles James 1749–1806.
.64 **Sheridan, Richard Brinsley** 1751–1816. See also 822.66.
.65 Grattan, Henry 1750–1820.
.66 Pitt, William 1759–1806.

826 English Letters.

Subdivided by periods like 821.

.2 Pre-Elizabethan, (Paston Letters,) **1400–1558.**

.5 Queen Anne, 1702–1745.

.51 Montagu, Lady Mary (Pierrepont) Wortley 1690–1762.
.52 Chesterfield, Philip Dormer Stanhope, 4th earl of 1694–1773.
.53

.6 Later 18th Century, 1745–1800.

.61 Orford, Horace Walpole, 4th earl of 1717–1797.
.62 Montagu, Mrs. Elizabeth (Robinson) 1720–1800.

827 English Satire and Humor.

.2 Pre-Elizabethan, 1400–1558.

.21 Barclay, Alexander 1475–1552.

.3 Elizabethan, 1558–1625.

.31 Gascoigne, George 1537–1577.
.32 Harington, Sir John 1561–1612.
.33 Hall, Joseph 1574–1656.
.34 Marston, John 1575–1634.
.35 Donne, John 1573–1631.
.36
.37
.38
.39

.4 Post-Elizabethan, 1625–1702.

.41 Wither, George 1588–1667.
.42 **Butler, Samuel** 1612–1680
.43 Marvell, Andrew 1620–1678.
.44 D'Urfey, Thomas 1625–1723.
.45 Oldham, John 1653–1683.
.46 Brown, Thomas 1663–1704.
.47 King, William 1663–1712.
.48 Garth, Sir Samuel 1665–1719.
.49 Minor Writers.

827.5 Queen Anne, 1702–1745.

.51 Ward, Edward 1667–1731.
.52 **Swift, Jonathan** 1667–1745.
.53 Mandeville, Bernard de 1670–1733.
.54 Arbuthnot, John 1675–1735.
.55 **Pope, Alexander** 1688–1744. See also 821.53.
.56
.57
.58

.6 Later 18th Century, 1745–1800.

.61 Churchill, Charles 1733–1765.
.62 Amory, Thomas 1691–1788.
.63 Whitehead, Paul 1710–1774.
.64 Junius 1679–1772.
.65 Wolcott, John 1738–1819.
(pseud. Peter Pindar.)
.66
.67
.68

.7 Early 19th Century, 1800–1837.

.71 Gifford, William 1757–1826.
.72 Hood, Thomas 1798–1845.
.73
.74
.75
.76

.8 Victorian, 1837–

.81 Jerrold, Douglas 1803–1857.
.82
.83
.84
.85
.86

828 English Miscellany.

Anecdotes, Ana, Epigrams, Quotations, etc., if illustrative of any special subject (e. g., biography, history, science, art), go with that subject. If general they go in 828; if limited to any period, they take the same divisions as 821. For Riddles, see 398.6; Proverbs, see 398.9. The same rule applies to other languages in 838, 848, etc.

829 Anglo-Saxon Literature.

.1 Poetry.
.2 Cædmon.
.3 Beowulf.
.4 Cynewulf.
.5 Homilies and Religious.
.6 Ælfric.
.7 Alfred the Great.
.8 Miscellaneous.
.9 Historical and Biographical.

830 German Literature.

830.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on German Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

831 German Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of German Poetry.

.1 Before the Crusades, –1150.

.11 "Hildebrandslied."
.12 Otfried.
.13 "Ludwigslied."
.14 "Muspilli."

.2 Middle High, 1150–1300.

.21 "Nibelungenlied."
.22 "Gudrun," and minor folk epics.
.23 Heinrich von Veldeke –1200. See also 839.311 2.
.24 Wolfram von Eschenbach.
.25 Gottfried von Strassburg.
.26 Hartmann von Aue 1170–1220.
.27 Walther von der Vogelweide 1170–1230.
.28 Ulrich von Lichtenstein 1199–1276.
.29 Minor Writers.

.3 Period of Decline, 1300–1517.

.31 Horneck, Ottokar von.
.32 Hadamar von Laber.
.33 Hermann von Sachsenheim –1458.
.34 Büheler, Hans. "Die sieben weisen Meister," 1414–
.35 Kaspar von der Röhn. "Das Heldenbuch."
.36 "Theuerdank."
.37 "Die Haimonskinder."
.38 Mastersingers.
.39 Minor Writers.

.4 Reformation. New High, 1517–1625.

.41 Agricola, Martin 1486–1556.
.42 Waldis, Burkard 1490–1558.
.43 Alberus, Erasmus 1500–1553.
.44 **Sachs, Hans** 1494–1576.
.45 Ringwaldt, Bartholomäus 1530–1599.
.46 Rollenhagen Georg 1542–1609.
.47 Andreä, Johann Valentin 1586–1654.

.5 Period of Imitation, 1625–1750.

[The Silesian Schools.]

.51 Opitz von Boberfeld, Martin 1597–1639.
.52 Flemming, Paul 1609–1640.
.53 Logau, Friedrich von 1604–1655.
.54 Gerhardt, Paul 1607–1676.
.55 Hofmannswaldau, Christian Hofmann von 1618–1679.
.56 Zesen, Philipp von 1619–1689.
.57 Brockes, Barthold Heinrich 1680–1747.
.58 Bodmer, Johann Jakob 1698–1783.
.59 Minor Writers.

831.6 Classic Period, 1750–1830.

[For Göthe and Schiller, see 832.6.]

.61 Gellert, Christian Fürchtegott 1715–1769.
.62 **Klopstock, Friedrich Gottlieb** 1724–1803.
.63 Bürger, Gottfried August 1748–1794.
.64 **Herder, Johann Gottfried von** 1744–1803.
65 Voss, Johann Heinrich 1751–1826.
66 Körner, Karl Theodor 1791–1813.
67 Hölderlin, Johann Christian Friedrich 1770–1843.
68 Platen Hallermünde, August, graf von 1796–1835.
.69 Minor Writers.

.7 Post-Classic Period, 1830–1856.

.71 Arndt, Ernst Moritz 1769–1860.
.72 Eichendorff, Joseph, freiherr von 1788–1857.
.73 Uhland, Johann Ludwig 1787–1862.
.74 Rückert, Friedrich 1789–1866.
.75 **Heine, Heinrich** 1799–1856.
.76 Niembsch von Strehlenau, Nikolaus 1802–1850.
.77 Auersperg, Anton Alexander, graf von [Anastasius Grün.] 1806–1881.
.78 Freiligrath, Ferdinand 1810–1876.
.79 Minor Writers.

.8 Later 19th Century, 1856–

.81 Schefer, Leopold 1784–1862.
.82 Kinkel, Johann Gottfried 1815–1882.
.83 Geibel, Emanuel 1815–1884.
.84 Bodenstedt, Friedrich Martin 1819–1892.
.85
.86
.87
.88
.89 Minor Writers.

832 German Drama.

.5 Period of Imitation, 1625–1750.

.51 Gryphius, Andreas 1616–1664.
.52 Lohenstein, Daniel Caspar 1635–1683.
.53 Weise, Christian 1642–1708.
.54 Gottsched, Johann Christoph 1700–1776.
.55 Gottsched, Luise Adelgunde Victorie (Culmus) 1713–1762.

.6 Classic Period, 1750–1830.

.61 **Lessing, Gottlob Ephraim** 1729–1781.
.62 **Göthe, Johann Wolfgang von** 1749–1832.
.63 **Schiller, Johann Christoph Friedrich** 1759–1805.
.64 Klinger, Friedrich Maximilian 1753–1831.
.65 Iffland, August Wilhelm 1759–1814.
.66 Kotzebue, August Friedrich Ferdinand von 1761–1819.
.67 Werner, Friedrich Ludwig Zacharias 1768–1823.
.68 Kleist, Heinrich Bernt Wilhelm von 1777–1811.
.69 Minor Writers.

832.7 **Post-Classic Period, 1830–1856.**

.71	Grabbe, Christian Dietrich	1801–1836.
.72	Griepenkerl, Wolfgang Robert	1810–1836.
.73	Grillparzer, Franz	1791–1872.
.74	Birch-Pfeiffer, Charlotte	1800–1868.
.75	Münch-Bellinghausen, Eligius Franz Joseph. [Friedrich Halm.]	1806–1866.
.76	Laube, Heinrich	1806–84
.77	Hebbel, Friedrich	1815–1863.
.78	Gutzkow, Karl Ferdinand	1811–1878.
.79	Minor Writers.	

.8 **Later 19th Century, 1856–**

.81	Benedix, Julius Roderich	1811–1873.
.82	Mosenthal, Salomon Hermann	1821–1877.
.83	Brachvogel, Albert Emil	1824–1878.
.84	Gottschall, Karl Rudolph	1823–
.85	Lindau, Paul	1839–
.89	Minor Writers.	

833 German Fiction.

.5 **Period of Imitation, 1625–1750.**

.51	Buchholtz, Andrew Heinrich	1607–1671.
.52	Grimmelshausen, Hans Jakob Christoffel von	1625–1676.
.53	Anselm, Heinrich	1653–1697.
.54	"Robinsonaden."	
.55	"Der Neue Amadis."	

.6 **Classic Period, 1750–1830.**

.61	Wieland, Christoph Martin	1733–1813.
.62	Richter, Jean Paul Friedrich	1763–1825.
.63	Hardenberg, Friedrich von [Novalis]	1772–1801.
.64	Hoffmann, Ernst Theodor Wilhelm	1776–1822.
.65	La Motte Fouqué, Friedrich H; C;	1777–1843.
.66	Arnim, Ludwig Achim von	1781–1831.
.67	Hauff, Wilhelm	1802–1827.
.68	Chamisso, Adelbert von	1781–1838.
.69	Minor Writers.	

.7 **Post-Classic Period, 1830-1856.**

.71	Zschokke, Johann Heinrich Daniel	1771–1848.
.72	Brentano, Clemens	1778–1842.
.73	Tieck, Ludwig	1773–1853.
74	Postl, Karl [Charles Sealsfield]	1793–1864.
75	Häring, Wilhelm [Wilibald Alexis]	1798–1871.
.76	Hahn-Hahn, Ida, gräfin von	1805–1880.
.77	Gerstäcker, Friedrich	1816–1872.
.78	Hackländer, Friedrich Wilhelm	1816–1877.
.79	Minor Writers.	

.8 **Later 19th Century, 1856–**

.81	Auerbach, Berthold	1815–1882.
.82	Freytag, Gustav	1816–1895.
.83	Scheffel, Joseph Viktor von	1826–1896.
.84	Spielhagen, Friedrich	1829–
.85	Heyse, Paul Johann Ludwig	1830–
.86	Ebers, Georg	1837–1898.
.89	Minor Writers.	

834 German Essays. Subdivided by periods like 831.

835 German Oratory. " "

836 German Letters. " "

837 German Satire and Humor.

.2 **Middle High. Minnesingers, 1150–1300.**

.21 [Stricker, Der.] "Der Pfaffe Amis" und "Beispiele."

.22 "Salomon und Morolf."

.3 **Period of Decline, 1300–1517.**

.31 "Reineke Vos." See also 839.371.

.32 Brant, Sebastian 1458–1521.

.4 **Reformation. New High, 1517–1625.**

.41 Murner, Thomas "Tyll Eulenspiegel." 1475–1537.

.42 Fischart, Johann 1550–1589.

.5 **Period of Imitation, 1625–1750.**

.51	Moscherosch, Johann Michael	1601–1669.
.52	Rachel, Joachim	1618–1669.
.53	Wernicke, Christian	1660–1720.
.54	Liscow, Christian Ludwig	1701–1760.

.6 **Classic Period, 1750–1830.**

.61	Rabener, Gottlieb Wilhelm	1714–1771.
.62	Blumauer, Aloys	1755–1798.

838 German Miscellany. See 828, note.

839 Minor Teutonic Literatures.

Subdivided by form, Poetry, Drama, etc., like 830.

.1 **Low German.**

.2 **Frisian. Old Saxon.**

.3 **Dutch Literature. Flemish.**

.31 Dutch Poetry.

.311 **Middle Ages.** 1200–1450.

[.1, Jacob van Maerlant 1235–1291; (.2, Heinrije van Veldeke 1200, see 831.23;) .3, Jan I. van Brabant 1250–1294; .4, Melis Stoke 1310; .5, Dirc Potter 1428.]

.312 **Chambers of Rhetoric.** 1450–1600.

[.1, Antonius de Rovere 1482; .2, Anna Bijns 1500; .3, Matthijs de Castelein 1488–1548; .4, Cornelis Everaert 1550; .5, Jan Baptist Houwaert 1533–1599; .6, Dirk Volkerszoon Coornhert 1522–1590; .7, Philipp Marnix 1538–1598; .8, Cornelis van Ghistele 1600; .9, Minor Writers.]

.313 **Period of the Republic.** 1600–1700.

[.1, **Jacob Cats,** 1577–1660; .2, **Joost van der Vondel** 1587–1679; .3, Marie Tesselschade Visscher 1594–1649; .4, **Constantijn Huygens** 1596–1687; .5, Reyer Anslo 1626–1669; .6, Geraert Brandt 1626–1685; .7, Jan Antoniszoon van der Goes (Antonides) 1647–1684; .9, Minor Writers.]

.314 **Poetical Societies.** 1700-1800.

[.1, Lucas Rotgans 1654–1710; .2, Hubert Corneliszoon Poot 1689–1733; .3, Arnold Hoogvliet 1687–1763; .4, Sybrand Feitama 1694–1758; .5, Willem van Haren 1710–1768; .6, Jacob Bellamy 1757–1786; .7, Hieronymus van Alphen 1746–1803; .9, Minor Writers.]

.315 **Modern Period.** 1800–

[.1, Willem Bilderdijk 1756–1831; .2, Jan Frederik Helmers 1767–1813; .3, Cornelis Loots 1765–1834; .4, Hendrik Tollens 1780–1856; .5, Isaac da Costa 1798–1860; .6, Jan Jacob Lodewijk ten Kate 1819–; .9, Minor Writers.]

839.32 Dutch drama

.323 **Period of the Republic** 1600–1700
.1 **Gerbrand Adriaenszoon Bredero** 1585–1618; .2 **Corneliszoon Hooft** 1581–1647; .3 Samuel Costa 1580–1650; .4 Jan Vos 1620–1667; .5 Guillelmus Ogier 1619–1689; .6 Joachim Oudaan 1628–1692; .9 Minor writers

.324 **Poetical societies** 1700–1800
.1 Pieter Langendijk 1683–1756; .2 Andries Pels; .3 Balthasar Huydecoper 1695–1778; .4 Onno Zwier van Haren 1713–1779; .5 Jan Nomsz 1738–1803; .9 Minor writers

.325 **Modern period** 1800–
.1 Samuel Ipcruszoon Wiselius 1769–1845; .2 Helvetius van den Bergh 1795–1865; .3 Hendrik Jan Schimmel 1825–1906

.33 Dutch fiction

.334 **Poetical societies** 1700–1800
.1 Elisabeth Bekker Wolff 1738–1804; .2 Agatha Deken 1741–1804; .3 Rhijnvis Feith 1753–1824

.335 **Modern period** 1800–
.1 Adriaan Loosjes 1761–1818; .2 Jacob Vosmaer 1783–1834; .3 Jan Frederik Oltmans 1800–1854; .4 Jacob van Lennep 1802–1868; .5 Hendrik Conscience 1812–1883; .6 Anna Louisa Geertruida Bosboom-Toussaint 1812–1886

.34 Dutch essays

.344 **Poetical societies**
Justus Van Effen 1684–1735 1700–1800

.345 **Modern Period** 1800–
.1 Johannes Henricus van der Palm 1763–1840; .2 Reinier Cornelis Bakhuizen van den Brink 1810–1865; .3 Everhardus Johannes Potgieter 1808–1875; .4 Nicolaas Beets 1814–1903; .5 Coenraad Busken Huet 1826–1886

.37 Dutch satire and humor

.371 **Middle ages**
Reinaert (van den vos Reinaerde) see 837.31 1200–1450

.374 **Poetical societies**
Arend Simonszoon Fokke 1755–1812 1700–1800

.38 Dutch miscellany
The subdivisions of 8 show the leading writers in other branches of knowledge. In classification, books are placed with their subjects, Theology, History, etc.

.381 **Middle ages** 1200–1450
Jan van Boendale (Jan de Clerc) *Chronicles*, 1280–1365

.384 **Poetical societies** 1700–1800
Simon Stijl, *History*, 1731–1804; Jan Wagenaar, *History*, 1709–1773

.4 Platt Deutsch

.5 Scandinavian

.6 Old Norse Icelandic Faroese

.7 Swedish literature

.71 Swedish poetry

.711 **Middle ages** 1200–1520
.1 Nicolaus Hermanni 1391; .2 Bishop Tomas 1443; .3 Ericus Olai 1486; .4 Ballads (Folkvisor)

.712 **Reformation** 1520–1640
.1 Olaus Petri 1496–1552; .2 Laurentius Petri 1499–1573

.713 **Age of Stjernhjelm** 1640–1740
.1 **Georg Stjernhjelm** 1598–1672; .2 Lars Johansson (Lucidor) 1640–1674; .3 Haquin Spegel 1645–1714; .4 Israel Holmström 1660–1708; .5 Gunno Eurelius Dahlstjerna 1661–1709; .6 Johan Runius 1679–1713; .7 Jacob Frese 1691–1729; .8 Samuel von Triewald 1688–1743; .9 Minor writers

.714 **Age of Dalin** 1740–1780
.1 Olof Carelius 1758; .2 **Olof von Dalin** 1708–1763; .3 Hedvig Charlotta Nordenflycht 1718–1763; .4 Anders Odel 1718–1773; .5 Gustaf Filip Creutz 1729–1785; .6 Gustaf Fredrik Gyllenborg 1731–1808; .7 Olof Bergklint 1733–1805; .9 Minor writers

.715 **Age of Gustavus** 1780–1800
.1 **Karl Mikael Bellman** 1740–1795; .2 Johan Henrik Kellgren 1751–1795; .3 Bengt Lidner 1757–1793; .4 Johan Gabriel Oxenstjerna 1750–1818; .5 Tomas Thorild 1759–1808; .6 Anna Maria Lenngren 1754–1817; .7 Karl Gustaf af Leopold 1756–1829; .8 Frans Mikael Franzén 1772–1847; .9 Minor writers

.716 **Modern period** 1800–
.1 Per Henrik Ling 1776–1839; .2 Johan Olof Wallin 1779–1839; .3 Esaias Tegnér 1782–1846; .4 Erik Johan Stagnelius 1793–1823; .5 Per Daniel Amadeus Atterbom 1790–1855; .6 Karl Jonas Ludwig Almqvist 1793–1866; .7 Johan Ludwig Runeberg 1804–1877; .8 Karl Vilhelm Böttiger 1807–1879; .9 Minor writers

839.72 Swedish Drama.

.722 **Reformation.** 1520–1640.
[.1, Johan Messenius 1579–1637; .2, Magnus Olai Asteropherus –1647; .3, Andreas Johannis Prytz 1590–1655.]

.723 **Age of Stjernhjelm.** 1640–1740.
[Isak Börk –1701.]

.725 **Age of Gustavus.** 1780–1800.
[.1, Karl Israel Hallman 1732–1800; .2, Gustaf fff. (King) 1746–1792; .3, Olof Kexél 1748–1796; .4, Karl Envallsson 1756–1806.]

.726 **Modern Period.** 1800–
[.1, Johan Börjesson 1790–1866; .2, Bernhard von Beskow 1796–1868; .3, August Teodor Blanche 1811–1868; .4, Johan Kristofer Jolin 1818–1884; .5, Frans Hedberg 1828–; .6, Per Johan Edvard Bäckström 1841–.]

839.73 Swedish Fiction.

.734 **Age of Dalin.** 1740–1780.
[.1, Jakob Henrik Mörk 1714–1763; .2, Jakob Vallenberg 1746–1778.]

.736 **Modern Period.** 1800–
[.1, Sofia Margareta von Knorring 1797–1848; .2, Magnus Jakob Crusenstolpe 1795–1865; .3, **Fredrika Bremer** 1801–1865; .4, Karl Anton Wetterberg (Onkel Adam) 1804–; .5, Emilie Flygare Carlén 1807–1892; .6, Zakris Topelins 1818–1898; .7, Viktor Rydberg 1829–1895; .9, **Minor Writers.**]

839.74 Swedish Essays.

.746 **Modern Period.** 1800–
[.1, Benjamin Karl Henrik Höijer 1767–1812; .2, Lorenzo Hammarsköld 1785–1827; .3, Bernhard Elis Malmström 1816–1865; .4, Karl Julius Lénström 1811–; .5, Gustaf Håkan Jordan Ljunggren 1825–; .6, Karl Rupert Nyblom 1832–.]

839.77 Satire and Humor.

.776 **Modern Period.** 1800–
[.1, Johan Anders Wadman 1777–1837; .2, Erik Sjöberg (Kallis) 1794–1828; .3, Kristian Erik Fahlcrantz 1790–1866; .4, Vilhelm August Detlof von Braun 1813–1860; .5, Gunnar Wennerberg 1817–.]

839.78 Swedish Miscellany.
The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.781 **Middle Ages.** 1200–1520.
[Canon Mattias, *Bible Translation*, –1350; Peder Månsson, *Encyclopedia*, –1534.]

.782 **Reformation.** 1520–1640.
[.1, Peder Andersson Svart, *History*, –1562; .2, Erik Göransson Tegel, *History*, 1580–1636; .3, Ægidius Girs, *History*, 1580–1639; .4, Gustavus Adolphus (King), *History*, 1594–1632.]

.783 **Age of Stjernhjelm.** 1640–1740.
[.1, Olof Rudbeck, *Medicine*, 1630–1702; .2, Urban Hjärne 1641–1724; .3, Johan Peringskjöld, *History*, 1654–1720; .4, Anders Rydelius, *Philosophy*, 1671–1738; .5, Anders Celsius, *Astronomy*, 1701–1744; .6, Emanuel Svedenborg, *Theology*, 1688–1772.]

.784 **Age of Dalin.** 1740–1780.
[.1, Karl Gustaf Tessin, *History*, 1695–1770; .2, Karl von Linné, *Botany*, 1707–1778; .3, Johan Ihre, *Philology*, 1707–1780; .4, Sven Lagerbring, *History*, 1707–1787; .5, Anders Johan von Höpken, *History*, 1712–1789; .6, Olof Celsius, *History*, 1716–1794; .7, Anders af Botin, *History*, 1724–1790; .8, Torbern Olof Bergman, *Chemistry*, 1735–1784; Karl Vilhelm Scheele, *Chemistry*, 1742–1786.]

.786 **Modern Period.** 1800–
[.1, Erik Gustaf Geijer, *History*, 1783–1847; .2, Anders Magnus Strinnholm, *History*, 1786–1862; .3, Anders Fryxell, *History*, 1795–1881; .4, Frederik Ferdinand Carlson, *History*, 1811–1887.]

839.8 Danish and Norwegian Literature.

.81 Danish and Norwegian Poetry.

.811 **Middle Ages.** 1100–1500.
[.1, Anders Sunesen; .2, Ballads (Kjæmpeviser).]

.812 **Reformation.** 1500–1560.
[Hans Tavsen 1494–1561.]

.813 **Learned Period.** 1560–1700.
[.1, Anders Arrebo 1587–1637; .2, Anders Bording 1619–1677; .3, Peder Syv 1631–1702; .4, Thomas Kingo 1634–1703; .5, Peder Dass 1647–1708; .6, Dorthe Engelbrektsdatter 1635–1716; .7, Sören Ter Kelsen 1661; .8, Jacob Vorm 1642–1693.]

.814 **Age of Holberg.** 1700–1750.
[.1, Jörgen Sorterup 1662–1723; .2, Töger Reenberg 1656–1742; .3, Kristian Falster 1690–1752; .4, Hans Adolph Brorson 1694–1764; .5, Ambrosius Stub 1705–1758; .6, Kristian Freoerik Wadskjær 1712–1779.]

839.815 **Period of Enlightenment.** 1750-1800.

[.1, Kristian Braunmann Tullin 1728-1765; .2, **Johannes Evald** 1743-1781; .3, Johan Herman Vessel 1742-1785; .4, Edvard Storm 1749-1794; .5, Kristen Henriksen Pram 1756-1821; .6, Jens Baggesen 1764-1826; .7, Knud Lyne Rahbek 1670-1830; .8, Malte Konrad Bruun 1775-1826; .9, Minor Writers.]

.816 **Modern Period.** 1800-

[.1, **Adam Gottlob Oehlenschläger** 1779-1850; .2, Bernhard Severin Ingemann 1789-1862; .3, Nicolai Frederik Severin Grundtvig 1783-1872; .4, Johannes Carsten Hauch 1790-1871; .5, Henrik Wergeland 1808-1845; .6, Ludvig Bödtcher 1793-1874; .7, Frederik Paludan-Müller 1809-1876; .8, Carl Ploug 1813-1894; .9, Minor Writers.]

839.82 Danish and Norwegian Drama.

.823 **Learned Period.** 1560-1700.

[.1, Hieronimus Justesen Rauch 1539-1607; .2, Hans Kristensen Sthen 1544-1603; .3, Peder Jensen Hegelund 1542-1614; .4, Hans Thomsen Stege; .5, Jens Lönberg 1663-1700.]

.824 **Age of Holberg.** 1700-1750.

[.1, **Ludvig Holberg** 1684-1754.]

.825 **Period of Enlightenment.** 1750-1800.

[.1, Charlotte Dorothea Biehl 1731-1788; .2, Johan Nordal Bruun 1745-1816; .3, Ole Johan Samsöe 1759-1796; .4, Enevold Falsen 1755-1808; .5, Thomas Thaarup 1749-1821; .6, Kristian Levin Sander 1756-1819; .7, Olaf Kristian Olufsen 1764-1827; .8, Peter Andreas Heiberg 1758-1841; .9, Minor Writers.]

.826 **Modern Period.** 1800-

[.1, Caspar Johannes Boye 1791-1853; .2, Johan Ludvig Heiberg 1791-1860; .3, Henrik Hertz 1798-1870; .4, Thomas **Overskou** 1798-1873; .5, Christian Knud Frederik Molbech 1821-1888; .6, Henrik Ibsen 1828-1906.]

839.83 Danish and Norwegian Fiction.

.836 **Modern Period.** 1800-

[.1, Thomasine Christine Gyllemhourg-Ehrensvärd 1773-1856; .2, Steen Steensen Blicher 1782-1848; .3, Christian Winther 1796-1876; .4, **Hans Christian Andersen** 1805-1875; .5, Meyer Aaron Goldschmidt 1819-1887; .6, Holger Drachmann; .7, Björnstjerne Björnson 1832-1910.]

839.84 Danish and Norwegian Essays.

.845 **Period of Enlightenment.** 1750-1800.

[Rasmus Nyerup 1759-1829.]

.846 **Modern Period.** 1800-

[.1, Niels Mathias Petersen 1781-1862; .2, Sören Aaby Kjérkegaard 1813-1855; .3, Rudolph Keyser 1803-1864; .4, Peter Andreas Munch 1810-1863; .5, Johan Sebastian Cammermeyer Welhaven 1807-1873; .6, Georg Brandes 1842-.]

839.87 Danish and Norwegian Satire and Humor.

.875 **Period of Enlightenment.** 1750-1800.

[.1, Peder Magnus Trojel 1743-1796; .2, Peder Koford Trojel 1754-1784; .3, Thomas Kristoffer Bruun 1750-1834.]

839.88 Danish and Norwegian Miscellany.

The subdivisions of 8 show the leading writers in other branches of knowledge. In classification books are placed with their subjects, Theology, History, etc.

.881 **Middle Ages.** 1100-1500.

[.1, Saxo (Longus) Grammaticus, *History*, -1208; .2, Svend Aagesen, *History*.]

.882 **Reformation.** 1500-1560.

[.1, Kristiern Pedersen, "*The Father of Danish Literature*," 1480-1554; .2, Povel Eliesen, *Sermons*, 1480-; .3, Hans Mikkelsen, *Bible Translation*, -1532; .4, Peder Plade (Palladius) 1503-1560; .5, Henrik Smith, *Medicine*, -1563.]

.883 **Learned Period.** 1560-1700.

[**History**: Hans Svaning 1508-1584; Anders Sörensen Vedel 1542-1616; Peder Klausen 1545-1614; Arild Hvitfeld 1549-1609; Klaus Lyskander 1558-1623; Ole Worm 1588-1654; Peder Resen 1625-1688.]

[**Theology**: Niels Hemmingsen 1513-1600; Holger Rosenkranz 1574-1642; Jesper Brochmand 1585-1652.]

[**Science**: Tyge Brahe, *Astronomy*, 1546-1601; Kaspar Bartholin, *Medicine*, 1585-1629; Thomas Bartholin, *Anatomy*, 1616-1680; Ole Borch, *Medicine*, 1626-1690; Niels Stensen, *Anatomy*, 1638-1686; Ole Römer, *Astronomy*, 1644-1710.]

.884 **Age of Holberg.** 1700-1750.

[.1, Erik Pontoppidan, *History*, 1698-1764; .2, Jacob Langebek, *History*, 1710-1775; .3, Frederik Kristian Eilschov, , 1725-1750; .4, Gerhard Schöning, *History*, 1722-1780; .5, Peder Frederik Suhm, *History*, 1728-1798.]

.9 **Gothic.**

840 French Literature.

840.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on French Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

841 French Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of French Poetry.

.1 Early French, 842-1400.

.11 **"Chanson de Roland."** "Chanson de Geste."

.12 Wace, Robert.

.13 Marie de France.

.14 Chrestien de Troyes -1191.

.15 Quesnes de Bethune -1228.

.16 Thibaut 4th, comte de Champagne 1201-1253.

.17 Rutebeuf 1230-

.18 **"Roman de la Rose."**

Guillaume de Loris, 1195-1260. Jean de Meung, 1280-1320.

.19 Minor Poets.

.2 Transition Period, 1400-1500.

.21 Chartier, Alain 1386-1458.

.22 Orléans, Charles duc d' 1391-1465.

.23 Coquillart, Guillaume 1421-1510.

.24 Baude, Henri 1430-1495.

.25 Villon, François 1431-1485.

.26

.27

.28

.29 Minor Poets.

.3 Renaissance, 1500-1600.

.31 Daurat, Jean 1510-1588.

.32 Du Bellay, Joachim 1524-1560.

.33 Belleau, Remy 1528-1577.

.34 Ronsard, Pierre de 1524-1585.

.35 Thiard, Pontus de 1521-1605.

.36 Baïf, Jean Antoine de 1532-1589.

.37 Saluste du Bartas, Guillaume de 1544-1590.

.38 Desportes, Philippe 1546-1606.

.39 Minor Poets.

.4 Classical Period, 1600-1715.

.41 Malherbe, François de 1555-1628.

.42 Maynard, François 1582-1646.

.43 Racan, Honorat de Bueil, marquis de 1589-1670.

.44 Chapelain, Jean 1595-1674.

.45 **La Fontaine, Jean de** 1621-1695.

.46 Deshoulières, Antoinette (du Ligier de la Garde), Madame 1637-1694.

.47 Chaulieu, Guillaume Amfrye de 1639-1720.

.48

.49 Minor Poets.

841.5 **18th Century, 1715–1789.**

.51	Rousseau, Jean Baptiste	1670–1741.	
.52	Racine, Louis	1692–1763.	
.53	Pompignan, Jean Jacques de Franc, marquis de	1709–1784.	
.54	Delille, Jacques	1738–1813.	
.55	Roucher, Jean Antoine	1745–1794.	
.56	Chénier, André Marie de	1762–1794.	
.57	Parny, Evariste Désiré Desforges, vicomte de	1753–1814.	
.58			
.59	Minor Poets.		

.6 **Revolution and Empire, 1789–1815.**

.61	Lebrun, Ponce Denis Écouchard	1729–1807.	
.62	Fontanes, Louis, marquis de	1757–1821.	
.63	Parseval Grandmaison, François Auguste	1759–1834.	
.64	Luce de Lancival, Jean Charles Julien	1764–1810.	
.65	Désaugiers, Marc Antoine Madeleine	1772–1827.	
.66	Campenon, François Nicolas Vincent	1772–1843.	
.67	Millevoye, Charles Hubert	1782–1816.	
.68			
.69	Minor Poets.		

.7 **Constitutional Monarchy, 1815–1848.**

.71	**Béranger, Pierre Jean de**	1780–1857.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 842.72.
.73	Deschamps, Émile	1791–1871.	
.74	Lamartine, Alphonse Marie Louis de Prat de	1792–1869.	
.75	Reboul, Jean	1796–1864.	
.76	Vigny, Alfred Victor, comte de	1799–1863.	See 842.75.
.77	Musset, Louis Charles Alfred de	1810–1857.	See 842.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 842.78 and 843.78
.79	Minor Poets.		

.8 **Later 19th Century, 1848–**

.81	Laprade, Pierre Marin Victor Richard de	1812–1883.	
.82	Dupont, Pierre	1821–1870.	
.83	Banville, Theodore Faullain de	1820–1891.	
.84	Sully-Prudhomme, René François Armand	1839–1907.	
.85	Coppée, Francis Édouard Joachim	1842–1908.	See 842.88.
.86	Deroulède, Paul	1846–	
.87			
.88			
.89	Minor Poets.		

842 French Drama.

.1 **Early French, 842–1400.**

.11	Mysteries and Miracles.	
.12	Adam de la Halle	1240–1286.
.13	Bodel, Jean.	
.14		
.15		
.16		
.17		
.18		
.19	Minor Dramatists.	

842.2 **Transition Period, 1400–1500.**

.21	Gresban, Arnoul.	
.22	Michel, Jean	–1493.
.23	Gringoire, Pierre	1480–1544.
.24		
.25		
.26		
.27		
.28		
.29	Minor Dramatists.	

.3 **Renaissance, 1500–1600.**

.31	Le Coq, Thomas.		
.32	Baïf, Lazare de.		
.33	La Peruse, Jean Bastier de	1530–1555.	
.34	Jodelle, Étienne	1532–1573.	
.35	Grévin, Jacques	1538–1570.	
.36	La Taille, Jean de	1540–1608.	
.37	Garnier, Robert	1545–1601.	
.38	Larivey, Pierre de	1550–1612.	
.39	Minor Dramatists.		

.4 **Classical Period, 1600–1715.**

.41	**Corneille, Pierre**	1606–1684.	
.42	**Molière, Jean Baptiste Poquelin,** *called*	1622–1673.	
.43	Corneille, Thomas	1625–1709.	
.44	Boursault, Edme	1638–1701.	
.45	**Racine, Jean**	1639–1699.	
.46	Brueys, David Augustin de	1640–1723.	
.47	Dufresny, Charles Rivière	1648–1724.	
.48	Baron, Michel Boyron, *called*	1653–1729.	
.49	Minor Dramatists.		

.5 **18th Century, 1715–1789.**

.51	La Motte, Antoine Houdart de	1672–1731.	
.52	Crebillon, Prosper Jolyot de	1674–1762.	
.53	Destouches, Philippe Nericault	1680–1754.	
.54	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 843.52.
.55	Piron, Alexis	1689–1773.	
.56	**Voltaire, François Marie Arouet de**	1694–1778.	See 843.54.
.57	Sédaine, Michel Jean	1719–1797.	
.58	Beaumarchais, Pierre Augustin Caron de	1732–1799.	
.59	Minor Dramatists.		

.6 **Revolution and Empire, 1789–1815.**

.61	Ducis, Jean François	1733–1816.	
.62	Collin-Harleville, Jean François	1735–1806.	
.63	La Harpe, Jean François de	1739–1803.	See 844.61.
.64	Fabre d'Églantine, Philippe François Nazaire	1755–1794.	
.65	Andrieux, François Guillaume Jean Stanislas	1759–1833.	
.66	Chenier, Marie Joseph	1764–1811.	
.67	Picard, Louis Benoît	1769–1828.	
.68	Lemercier, Louis Jean Népomucène	1771–1840.	
.69	Minor Dramatists.		

842.7 **Constitutional Monarchy, 1815–1848.**

.71	Soumet, Alexandre	1788–1845.	
.72	Delavigne, Jean François Casimir	1793–1843.	See 841.72.
.73	Scribe, Augustin Eugène	1791–1861.	
.74	Ancelot, Jacques Arsène François Polycarpe	1794–1864.	
.75	Vigny, Alfred Victor, comte de	1799–1863.	See 841.76.
.76	Musset, Louis Charles Alfred de	1810–1857.	See 841.77.
.77	**Dumas, Alexandre, the elder**	1806–1870.	See 843.76.
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 843.78.
.79	Minor Dramatists.		

.8 **Later 19th Century, 1848–**

.81	Labiche, Eugène Marin	1815-88
.82	Ponsard, François	1824–1867.
.83	Augier, Guillaume Victor Émile	1822–89
.84	Dumas, Alexandre, fils	1824–1895.
.85	Bornier, Henri de	1825–1901.
.86	Sardou, Victorien	1831–1908.
.87	Pailleron, Édouard	1834–1899.
.88	Coppée, Francis Édouard Joachim	1842–1908. See 841.85.
.89	Minor Dramatists.	

843 French Fiction.

.2 **Transition Period, 1400–1500.**

.21	Christine de Pisan	1363–1431.
.22	Jean de Tuim.	
.23	La Sale, Antoine de	1398–1462.
.24	Chastelain, Georges	1403–1475.
.25		
.26		
.27		
.28		
.29	Minor Writers.	

.3 **Renaissance, 1500–1600.**

.31	Marguer te de Navarre	1492–1549.
.32	Desperriers, Bonaventure	1500–1544.
.33	Herberay, Nicolas d'	–1552.
.34	Du Fail, Noël	–1585.
.35	Bouchet, Guillaume	1526–1606.
.36	Beroalde de Verville, François	1558–1612.
.37		
.38		
.39	Minor Writers.	

.4 **Classical Period, 1600–1715.**

.41	Urfé, Honoré d'	1568–1625.
.42	Gomberville, Marin Le Roy de	1600–1647.
.43	La Calprenède, Gauthier de Costes de	1602–1663.
.44	Scudéry, Georges de	1601–1667.
.45	Scudéry, Madeleine de	1607–1701.
.46	Cyrano de Bergerac, Savinien	1620–1655.
.47	Perrault, Charles	1628–1703.
.48	Lafayette, Marie Madeleine Pioche de la Vergne, comtesse de	1634–1693.
.49	Minor Writers.	

843.5 **18th Century, 1715–1789.**

.51	Le Sage, Alain René	1668–1747.	
.52	Marivaux, Pierre Carlet de Chamblain de	1688–1763.	See 842.54.
.53	Prevost d'Exiles, Antoine François	1697–1763.	
.54	**Voltaire, François Marie Arouet de**	1694–1778.	See 842.56.
.55	Crébillon, Claude Prosper Jolyot de, fils	1707–1777.	
.56	**Rousseau, Jean Jacques**	1712–1778.	
.57	Restif de la Bretonne, Nicolas Edme	1734–1806.	
.58	Florian, Jean Pierre Claris de	1755–1794.	
.59	Minor Writers.		

.6 **Revolution and Empire, 1789–1815.**

.61	St. Pierre, Jacques Henri Bernardin de	1737–1814.
.62	**Staël Holstein, Anne Louise Germaine (Necker), baronne de**	1766–1817.
.63	Constant de Rebecque, Henri Benjamin	1767–1830.
.64	Maistre, Xavier de	1763–1852.
.65	Chateaubriand, François Auguste René, vicomte de	1768–1848.
.66		
.67		
.68		
.69	Minor Writers.	

.7 **Constitutional Monarchy, 1815–1848.**

.71	Beyle, Marie Henri [de Stendhal]	1783–1842.	
.72	Nodier, Charles	1790–1844.	
.73	**Balzac, Honoré de**	1799–1850.	
.74	Sue, Marie Joseph, *called* Eugène	1804–1857.	
.75	Souvestre, Émile	1806–1854.	
.76	**Dumas, Alexandre, the elder**	1806–1870.	See 842.77.
.77	Gautier, Theophile	1811–1872.	
.78	**Hugo, Victor Marie, comte**	1802–1885.	See 841.78 and 842.78.
.79	Minor Writers.		

.8 **Later 19th Century, 1848–**

.81	Mérimée, Prosper	1803–1870
.82	**Dudevant, Amantine Lucile Aurore Dupin [George Sand]**	1804–1876
.83	Feuillet, Octave	1822–1890
.84	Flaubert, Gustave	1821–1881.
.85	Erckmann-Chatrian { Erckmann, Émile / Chatrian, Alexandre	1822– / 1826–1890
.86	About, Edmond François Valentin	1828–1885
.87	Cherbuliez, Victor	1832–
.88	Daudet, Alphonse	1840–1897.
.89	Minor Writers.	

844 French Essays.

.3 **Renaissance, 1500–1600.**

.31	**Montaigne, Michel Eyquem de**	1533–1592.

.4 **Classical Period, 1600–1715.**

.41	Du Vair, Guillaume	1556–1621.
.42	Saint-Évremond, Charles de Marguetel de Saint-denis de	1613–1703.

844.5 **18th Century, 1715–1789.**

.51 Fontenelle, Bernard le Bovier de 1657–1757.
.52 Montesquieu, Charles le Secondat, baron de 1689–1755.
.53 Alembert, Jean le Rond d' 1717–1783.

.6 **Revolution and Empire, 1789–1815.**

.61 La Harpe, Jean François de 1739–1803. See 842.63.
.62 Joubert, Joseph 1754–1824.
.63 Courier de Méré, Paul Louis 1772–1825.
.64 Senancour, Étienne Pivert de 1770–1846.

.7 **Constitutional Monarchy, 1815–1848.**

.71 La Mennais, Hugues Félicité Robert de 1782–1854.
.72 Villemain, Abel François 1790–1870.
.73 Planche, Jean Baptiste Gustave 1808–1857.
.74 **Sainte Beuve, Charles Augustin** 1804–1869.
.75 Saint-Marc Girardin 1801–1873.
.76 Janin, Jules Gabriel 1804–1874.
.77 Nisard, Jean Marie Napoléon Désiré 1806–1888.

.8 **Later 19th Century, 1848–**

.81 Quinet, Edgar 1803–1875.
.82 Renan, Ernest 1823–1892.
.83 Taine, Hippolyte Adolphe 1828–1893.

845 French Oratory. Subdivided by periods, like 841.

846 French Letters. Subdivided by periods, like 841.

847 French Satire and Humor.

.1 **Early French, 842–1400.**

.11 Guyot de Provins.
.12 "Roman du Renard." See 837.31 and 839.371.
.13 Deschamps, Eustache 1320–1400.

.3 **Renaissance, 1500–1600.**

.31 Marot, Clement 1495–1544.
.32 **Rabelais, François** 1495–1553.
.33 "La Satyre Ménippée" 1594.
.34 Aubigné, Théodore Agrippa d' 1550–1630.
.35 Regnier, Mathurin 1573–1613.

.4 **Classical Period, 1600–1715.**

.41 Viau, Théophile de 1590–1626.
.42 Saint Amant, Marc Antoine Gérard 1594–1661.
.43 Scarron, Paul 1610–1660.
.44 Benserade, Isaac de 1612–1691.
.45 Furetière, Antoine 1620–1688.
.46 **Boileau Despréaux, Nicolas** 1636–1711.
.47 Regnard, Jean François 1655–1709.

.5 **18th Century, 1715–1789.**

.51 Gresset, Jean Baptiste Louis 1709–1777.
.52 Gilbert, Nicolas Joseph Laurent 1751–1780.

.7 **Constitutional Monarchy, 1815–1848.**

.71 Barthélemy, August Marseille 1796–1367.
.72 Barbier, Henri Auguste 1805–1882.

848 French Miscellany. Subdivided by periods, like 841.

849 Provençal literature

.1 **Provençal poetry**

.11 1st period 900–1100
Poetry in hands of clergy. No folk poetry preservd. Form mainly epic. Language not yet fixt. Country under rule of counts, nominally subject to emperor, really independent till 1486, then reunited to France

.111 Epic poetry
Boethius

.112 Lyric poetry

.119 Minor poetry Didactic

.12 Golden age 1100–1300
Poets mainly knights, but after 1250 almost exclusivly burghers. Lyric most important

.121 Romances of chivalry
Girart de Rossilho

.122 Historical poetry
Croisade contre les Albigeois

.123 Romans d'aventures
Flamenca

.124 Lyric poetry

.125 Bernart de Ventadorn flourisht about 1140–1195
.126 Born, Bertran de " " 1180–1195
.127 Arnaut, Daniel " " 1180–1200
.128 Borneill, Guiraut de " " 1175–1220

.129 Minor poetry
Nearly 500 poets named beside anonymous poems. Form prevails over content; great variety of poetic forms. These lyric poets are the real Troubadours

.13 Aftermath 1300–1500
Downfall of language and literature owing to lack of content and to political and social causes, specially the crusade against the Albigenses

.131 Poets of school of Toulouse
Arnaut Vidal, first recipient of the Golden Violet, 1324. Poetry artificial, a craft. Las Leys d'Amors is the code of poetic laws, by Guillem Molinier, chancellor of "Consistory de la gaya sciensa" establisht at Toulouse 1324. First prize a golden violet. When in danger of perishing, consistory revived in 1484 and poetic exercises styled "Jeux floraux"

.132 La Noble Leyczon
Religious poetry of Waldenses

.139 Minor poetry

.14 Decadence 1500–
Provençal sinks to position of a dialect despite fitful attempts to revive it, the most recent, that connected with publication of Li Provençalo 1852

.141 Goudouli, Pierre de 1579–1649
.142 Despourrins, Cyprien 1698–1755
.143 Jasmin, Jacques 1798–1864
.144 Roumanille, Joseph 1818–1891
.145 Aubanel, Jos. Marie J. Baptiste Theodore 1829–1886
.146 Mistral, Frederic 1830–
.149 Minor poetry

849.9 **Catalan Literature.**

.91 Catalan poetry:

.911 1st Period 1200–1350.

Catalonia before 1137 ruled by French Counts, then united to Aragon. Language is closely allied to Provencal, in which first poets wrote. MSS. scattered; few as yet printed; Literature begins with James 1st (1213-'76) who made Catalan the state language.

For Ramon Muntaner see 849.981.3.

.1, Raimon Lull 1225-1315; .2, Febler 1250; .9, Minor poets.

.912 Second Period. 1350–1450.

Imitation of Neo Provencal, French and Italian, specially of Dante, Petrarch and Boccacio. Some flashes of originality. Fra Rocaberti. Imitation of Dante.

.913 Age of Perfection 1450–

From 16th Century, Catalan literature merged in Spanish, tho some writers stil employ idiom, e. g. "Balaguer."

.1, March, Ausias –1460, greatest of Catalan poets; .2, Fenolla, Bernard; .3, Jacme Roig (satiric); .4, Farrer; .5, Serafi; .6, Pujol; .7, Garcia; .9, Minor Poets.

.93 Catalan Fiction.

.933 Age of Perfection 1450–

Joanet Martorel –1460. Tirant lo Blanch, a chivalric romance.

.98 Miscellany.

.981 1st Period. 1200–1350.

Prose superior to poetry. Chronicles of great importance, culminating in Muntaner.

.1, James 1 (The Conqueror) 1213–76; .2, Desclot, Bernardo; .3, Muntaner, Ramon 1265-1340; .4, Ximenes; .9, Minor authors.

.982 Second period. 1350–1450

Prose resists foreign influences better than poetry. Many philosophical and theological writings beside historical works.

.1, Tomich; .2, Turell; .9, Minor writers.

850 Italian Literature.

850.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays, Lectures, and Addresses on Italian Literature; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

851 Italian Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Italian Poetry.

.1 Early Italian; Age of Dante, –1375

To death of Boccaccio, 1375.

.11	Protonotario, Stefano	–1250.
.12	Arezzo, Guittone d'	–1294.
.13	Guinicelli, Guido	–1276.
.14	Cavalcanti, Guido	1260–1300.
.15	**Alighieri, Dante**	1265–1321.
.16	Pistoia, Cino da	1270–1336.
.17	Uberti, Fazio degli	–1369.
.18	**Petrarca, Francesco**	1304–1374.
.19	Minor Poets.	

.2 Period of Classical Learning, 1375–1492.

From death of Boccaccio, 1375, to death of Lorenzo il Magnifico, 1492.

.21	Frezzi, Federigo	–1416.
.22	Bojardo, Matteo	1430–1494.
.23	**Medici, Lorenzo dei (Il Magnifico)**	1448–1492.
.24	**Poliziano, Angelo**	1454–1494. See **852.22.**
.25	Berivieni, Girolamo	1453–1542.
.26	Sannazzaro, Jacopo	1458–1530.
.29	Minor Poets.	

.3 Age of Leo the Tenth, 1492–1542.

From death of Lorenzo il Magnifico, 1492, to Convocation of Council of Trent, 1542.

.31	Bembo, Pietro	1470–1547.
.32	**Ariosto, Lodovico**	1474–1533.
.33	Rucellai, Giovanni	1475–1526.
.34	Molza, Francesco	1483-1544. See **853.33.**
.35	Tasso, Bernardo	1493–1569.
.36	Alamanni, Luigi	1495–1556.
.37	Guidiccioni, Giovanni	1500–1541.
.38	Casa, Giovanni della	1503–1556.
.39	Minor Poets.	

4. Later 16th Century, 1542–1585.

From Convocation of Council of Trent, 1542, to Pontificate of Sixtus V, 1585.

.41	Costanzo, Angelo di	1507–1591.
.42	Rota, Bernardino	1509–1575.
.43	Tansillo, Luigi	1510–1568.
.44	Magno, Celio	1536–1602.
.45	Guarini, Giovambattista	1537–1612.
.46	**Tasso, Torquato**	1544–1595.
.47	Baldi, Bernardino	1553–1617.
.49	Minor Poets.	

851.5 **Period of Decline, 1585–1748.**

From Pontificate of Sixtus V., 1585–90, to Peace of Aix-la-Chapelle. 1748.

.51	Chiabrera, Gabriello	1552–1637.
.52	Marini, Giovambattista	1569–1625.
.53	Testi, Fulvio	1593–1646.
.54	Filicaja, Vincenzo	1642–1707.
.55	Guidi, Alessandro	1650–1712.
.56	Manfredi, Eustachio	1674–1738.
.57	Frugoni, Carlo Innocenzo	1692–1768.
.58	Algarotti, Francesco	1712–1764.
.59	Minor Poets.	

.6 **Period of Renovation, 1748–1814.**

From Peace of Aix-la-Chapelle, 1748, to Congress of Vienna, 1814.

.61	Paradisi, Agostino	1736–1783.
.62	Mascheroni, Lorenzo	1750–1800.
.63	Pindemonte, Ippolito	1753–1828.
.64	Monti, Vincenzo	1754–1828.
.65	Cassi, Francesco	1778–1846.
.66	Foscolo, Ugo	1779–1827.
.67	Arici, Cesare	1782–1836.
.68	Sestini, Bartolommeo	1792–1822.
.69	Minor Poets.	

.7 **Early 19th Century, 1814–1859.**

From Congress of Vienna, 1814, to War of Independence, 1859.

.71	Berchet, Giovanni	1783–1851.
.72	Rossetti, Gabriello	1783–1854.
.73	Manzoni, Alessandro	1785–1873. See 853.72.
.74	Marchetti, Giovanni	1790–1852.
.75	Leopardi, Giacomo	1798–1837.
.76	Carrer, Luigi	1801–1850.
.77	Regaldi, Giuseppe	1809–1883.
.78	Prati, Giovanni	1815–1884.
.79	Minor Poets.	

.8 **Later 19th Century, 1859–**

From War of Independence, 1859, to

.81	Aleardi, Aleardo	1810–1878.
.82	Zanella, Giacomo	1820–1888.
.83	Gnoli, Domenico	1836–
.84	Carducci, Giosuè	1835–1907.
.85	Fogazzaro, Antonio	1842–1911.
.86	Rapisardi, Mario	1844–
.87	Guerrini, Olindo	1845–
.88		
.89	Minor Poets.	

852 Italian Drama.

.1 **Early Italian; Age of Dante, –1375.**

.2 **Period of Classical Learning, 1375–1492.**

.21	Belcari, Feo	1410–1484.
.22	Poliziano, Angelo	1454–1494. See 851.24.
.29	Minor Dramatists.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Machiavelli, Niccolò	1469–1527. See 854.31
.32	Dovizi, Bernardo (Cardinal Bibbiena)	1470–1520.
.33	Trissino, Gian Giorgio	1478–1550.
.34	Aretino, Pietro	1492–1556.
.35	Ambra, Francesco d'	–1558.
.39	Minor Dramatists.	

.4 **Later 16th Century, 1542–1585.**

.41	Speroni, Sperone	1500–1588.
.42	Giraldi, G. B. Cinzio	1504–1573. See 853.44.
.43	Cecchi, Giovanni Maria	1517–1587.
44	Asinari, Federigo	1527–1576.
.45	Porta, Giovambattista della	1538–1615.
.49	Minor Dramatists.	

.5 **Period of Decline, 1585–1748.**

.51	Buonarroti, Michelangiolo, Jr.	1564–1646.
.52	Rinuccini, Ottavio	1565–1622.
.53	Andreini, Giovambattista	1578–1650.
.54	Gigli, Girolamo	1660–1722.
.55	Zeno, Apostolo	1669–1750.
.56	Maffei, Scipione	1675–1755.
.57	Trapassi, Pietro (Metastasio)	1698–1782.
.59	Minor Dramatists.	

.6 **Period of Renovation, 1748–1814.**

For Manzoni, see 851.73 and 853.72.

.61	Goldoni, Carlo	1707–1793.
.62	Gozzi, Carlo	1722–1806.
.63	Capacelli Albergati, Francesco	1728–1804.
.64	Alfieri, Vittorio	1749–1803.
.65	Nota, Alberto	1775–1847.
.66	Biondi, Luigi	1776–1839.
.67	Benedetti, Francesco	1785–1821.
.69	Minor Dramatists.	

.7 **Early 19th Century, 1814–1859.**

.71	Niccolini, Giovambattista	1782–1861.
.72	Pellico, Silvio	1788–1854.
.73	Giacometti, Paolo	1816–1881.
.74	Gherardi del Testa, Tommaso	1818–1872.
.75	Ferrari, Paolo	1822–89
.79	Minor Dramatists.	

852.8 Later 19th Century, 1859–

.81	Bersezio, Vittorio	1830–1900.	
.82	Cossa, Pietro	1833–1882.	
.83	Carrera, Valentino	1834–1895.	
.84	Marenco, Leopoldo	1831–1899.	
.85	Cavallotti, Felice	1842–1898.	
.86	Torelli, Achille	1844–	
.87			
.88			
.89	Minor Dramatists.		

853 Italian Fiction.

.1 Early Italian; Age of Dante, –1375.

.11	"Cento Novelle Antiche" (Gualteruzzi's Collection).		
.12	Barberino, Francesco da	1264–1348.	
.13	Pisa, Guido da	–1350.	
.14	Gubbio, Bosone da		
.15	**Boccaccio, Giovanni**	1313–1375.	
.19	Minor Writers.		

.2 Period of Classical Learning, 1375–1492.

.21	Sacchetti, Franco	–1400.	
.22	Fiorentino, Ser Giovanni		
.23	Manetti, Antonio	1423–1497.	
.24	Mangabotti, Andrea dei		
.25	Prato, Giovanni da		
.29	Minor Writers.		

.3 Age of Leo the Tenth, 1492–1542.

.31	Salernitano, Masuccio		
.32	Bandello, Matteo	1480–1561.	
.33	Molza, Francesco	1483–1544.	See 851.34.
.34	Firenzuola, Agnolo	1493–1548.	
.39	Minor Writers.		

.4 Later 16th Century, 1542–1585.

.41	Grazzini, Antonfrancesco (Lasca)	1503–1583.	
.42	Doni, Antonfrancesco	1513–1574.	
.43	Erizzo, Sebastiano	1525–1585.	
.44	Giraldi, G. B. Cinzio	1504–1573.	See 852.42.
.45	Parabosco, Girolamo	–1560.	
.49	Minor Writers.		

.5 Period of Decline, 1585–1748.

.6 Period of Renovation, 1748–1814.

853.7 Early 19th Century, 1814–1859.

.71	Rosini, Giovanni	1776–1855.	
.72	**Manzoni, Alessandro**	1785–1873.	See 851.73.
.73	Grossi, Tommaso	1791–1853.	
.74	Guerrazzi, Francesco Domenico	1804–1873.	
.75	Bresciani, Antonio	1798–1862.	
.76	Cantù, Cesare	1807–1895.	
.77	Carcano, Giulio	1812–1883.	
.78	Azeglio, Massimo d'	1800–1866.	
.79	Minor Writers.		

.8 Later 19th Century, 1859–

.81	Castellazzo, Luigi	1827–1890.	
.82	Barrili, Anton Giulio	1836–1908.	
.83	Capuana, Luigi	1839–	
.84	Verga, Giovanni	1840–	
.85	Faldella, Giovanni	1846–	
.86	Farina, Salvatore	1846–	
.87	Giovagnoli, Raffaele	1838–	
.88	Serao, Matilde	1856–	
.89	Minor Writers.		

854 Italian Essays.

.1 Early Italian; Age of Dante, –1375.

.11	Cavalca, Fra Domenico	–1342.	
.12	Passavanti, Fra Jacopo	–1357.	

.2 Period of Classical Learning, 1375–1492.

.21	Alberti, Leone Battista	1404–1472.	
.22	Palmieri, Matteo	1405–1475.	
.23	Bisticci, Vespasiano da	1421–1498.	
.24	Collenuccio, Pandolfo	–1504.	
.25	Vinci, Leonardo da	1452–1519.	
.29	Minor Essayists.		

.3 Age of Leo the Tenth, 1492–1542.

.31	Machiavelli, Niccolò	1469–1527.	See 852.31.
.32	Nardi, Jacopo	1476–1555.	
.33	Castiglione, Baldassare	1478–1529.	
.34	Guicciardini, Francesco	1482–1540.	
.35	Giannotti, Donato	1494–1573.	
.36	Giambullari, Pier Francesco	1495–1555.	
.37	Gelli, Giovambattista	1498–1563.	
.38	Varchi, Benedetto	1503–1566.	
.39	Minor Essayists.		

854.4 **Later 16th Century, 1542–1585.**

.41	Castelvetro, Ludovico	1505–1571.
.42	Piccolomini, Alessandro	1508–1578.
.43	Borghini, Vincenzo	1515–1580.
.44	Davanzati, Bernardo	1529–1606.
.45	Salviati, Leonardo	1540–1589.
.46	Ammirato, Scipione	1531–1601.
.47	Paruta, Paolo	1540–1598.
.48	Botero, Giovanni	1540–1617.
.49	Minor Essayists.	

.5 **Period of Decline, 1585–1748.**

.51	Sarpi, Paolo	1550–1623.
.52	Galilei, Galileo	1564–1642.
.53	Bartoli, Daniele	1608–1685.
.54	Dati, Carlo	1619–1675.
.55	Gravina, Giovanni Vincenzo	1664–1718.
.56	Muratori, Ludovico Antonio	1672–1750.
.57	Giannone, Pietro	1676–1748.
.58	Zanotti, Francesco Maria	1692–1777.
.59	Minor Essayists.	

.6 **Period of Renovation, 1748–1814.**

.61	Bettinelli, Saverio	1718–1808.
.62	Denina, Carlo	1730–1813.
.63	Tiraboschi, Girolamo	1731–1794.
.64	Lanzi, Luigi	1732–1810.
.65	Beccaria, Cesare	1735–1793.
.66	Filangeri, Gaetano	1752–1788.
.67	Cesari, Antonio	1760–1828.
.68	Perticari, Giulio	1779–1822.
.69	Minor Essayists.	

.7 **Early 19th Century, 1814–1859.**

.71	Costa, Paolo	1771–1836.
.72	Giordani, Pietro	1774–1848.
.73	Troya, Carlo	1785–1859.
.74	Balbo, Cesare	1789–1853.
.75	Capponi, Gino	1792–1878.
.76	Mamiani della Rovere. Terenzio	1800–1885.
.77	Gioberti, Vincenzo	1801–1853.
.78	Tommaséo, Niccolò	1802–1874.
.79	Minor Essayists.	

.8 **Later 19th Century, 1859–**

.81	Sanctis, Francesco de	1818–1883.
.82	Bonghi, Ruggiero	1827–1895.
.83	Conti, Augusto	1822–1905.
.84	Villari, Pasquale	1827–
.85	Ardigò, Roberto	1828–
.86	Comparetti, Domenico	1835–
.87	Zumbini, Bonaventura	1840–
.88	Panzacchi, Enrico	1841–1904.
.89	Minor Essayists.	

855 Italian Oratory.

856 Italian Letters.

857 Italian Satire and Humor.

.1 **Early Italian; Age of Dante, –1375.**

.11	Gemignano, Folgore da San	
.12	Chitarra, Cene dalla	
.13	Angiulieri, Cecco	
.14	Pucci, Antonio	–1377.
.19	Minor Writers.	

.2 **Period of Classical Learning, 1375–1492.**

.21	Burchiello, Domenico	1395–1448.
.22	Pulci, Luigi	1432–1484.
.23	Vinciguerra, Antonio	
.29	Minor Writers.	

.3 **Age of Leo the Tenth, 1492–1542.**

.31	Folengo, Teofilo (Merlin Cocai)	1491–1544.
.32	Berni, Francesco	1496–1535.
.39	Minor Writers.	

.4 **Later 16th Century, 1542–1585.**

.41	Nelli, Pietro	
.42	Beccuti, Francesco	1509–1553.
.43	Caporali, Cesare	1531–1601.
.49	Minor Writers.	

.5 **Period of Decline, 1585–1748.**

.51	Tassoni, Alessandro	1565–1635.
.52	Bracciolini, Francesco	1566–1645.
.53	Lalli, Giovambattista	1572–1637.
.54	Lippi, Lorenzo	1606–1664.
.55	Rosa, Salvatore	1615–1673.
.56	Menzini, Benedetto	1646–1704.
.57	Sergardi, Ludovico	1660–1726.
.58	Fortiguerri, Niccolò	1674–1735.
.59	Minor Writers.	

.6 **Period of Renovation, 1748–1814.**

.61	Gozzi, Gasparo	1713–1786.
.62	Passeroni, Gian Carlo	1713–1803.
.63	Casti, Giovambattista	1721–1803.
.64	Parini, Giuseppe	1739–1799.
.65	Baretti, Giuseppe	1716–1789.
.66	Elci, Angelo Maria d'	1754–1824.
.67	Pananti, Filippo	1766–1837.
.69	Minor Writers.	

.7 **Early 19th Century, 1814–1859.**

.71	Giusti, Giuseppe	1809–1850.

858 Italian Miscellany.

.8 **Later 19th Century, 1859–**

.81	Gubernatis, Angelo de	1840–
.82	Amicis, Edmondo de	1846–1908.

859 Wallachian Literature.

.1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

.9 **Rumansh Literature**

Subdivided like 859.

860 Spanish Literature.

860.1, Philosophy; .2, Compends; .3, Dictionaries; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History.

861 Spanish Poetry.

.02, Dramatic; .03, Romantic and Epic; .04, Lyric, Ballads; .05, Didactic; .06, Descriptive; .07, Satirical and Humorous; .09, History of Spanisb Poetry.

.1 Early Spanish. –1369.

In 711 the Visigothic kingdom, founded in the 5th cent. was overthrown by Arabs; 711–1492 Arabic Period or Age of Reconquest.

Literature began in first half of 12th cent. Earliest poetry, epic; subjects national, themes war and religion (861.11–12). These were followed by an erudite tendency toward classic tradition neglecting national themes (861.13 and 14) which were however revived toward the close of the period (861.15) by continued victories over Moors under Alfonso 11th, 1312–50, thereafter reaction again toward didactic (861.16). Under Alfonso the wise, 1252–84, a general intellectual awakening, but leading to greater results in prose than in poetry. Through him (1) Provençal (and Galician) and (2) Oriental influences were introduced. In Provençal literature chief attention was given to perfection of poetic form. The Oriental was didactic in content, symbolic in form.

.11 "Primitive Monuments."

.12 "Poema de mio Cid."

.13 Berceo, Gonzalo de 1196–1266.

.14 Segura de Astorga, Juan Lorenzo 1250.

.15 Yañez Ruy (Cronica del Rey Alfonso Onceno).

.16 Sem Tob, Rabbi 1350.

.19 Minor Poets.

.2 Age of Imitation. 1369–1516.

Henry 2d to Carlos 1st, Charles 5th of Germany. 1479, Union of Castile and Arragon. Under Ferdinand and Isabella all Spain was brought under one scepter. Provençal and didactic tendencies continue; a third element was Italian influence. There were three distinct schools:

1. Provençal, specially influential at court.
2. Italian (Dante) or Allegorical, introduced by Francisco Imperial, a Genoese. (Mena, 861.22.)
3. Didactic. A protest against the Italian school in behalf of national literary traditions. (Ayala, 861.21).

.21 Lopez de Ayala, Pedro 1332–1407.

.22 Mena, Juan de 1411–1456.

.23 Mendoza, Iñigo Lopez de, Marqués de Santillana 1398–1458.

.24 Manrique, Jorge 1440–1479.

.25 Los "Cancioneros" } Collections of poetry.

.26 Los "Romances" }

.27 Romancero del Cid.

"Romances" popular poetry, peculiar to Spain, and generally anonymous; period of production, from earliest times to 18th cent. Golden Age during reign of Ferdinand aud Isabella, a grand reawakening coming with the fall of Granada, 1492.

.29 Minor Poets.

861 .3 Golden Age. 1516–1700.

Rule of House of Austria. Painting culminates in this period: Morales 1509–86; Coello 1515–90; Joanes 1523–79; The Herrera—16th cent.; Ribera 1588–1656; Zurbaran 1598–1662; **Velazquez** 1599–1660; Cano 1601–1667; **Murillo** 1618–1682, etc.

Fierce opposition to the Reformation intensified religious sentiment and produced a school of mystics. The sentiment of nationality became a dream of universal monarchy. The chivalric cult of woman was replaced by an exaggerated conception of female honor, the least suspicion of frailty being visited with death.

Great number of poets. Nothing notable in Epic; Lyric very prominent; at first Italian influences more intensified, Petrarch the model. This movement, begun by Juan Boscan 1500(?)–1543, culminated in Garcilaso (861.31). The protest against this in favor of national traditions is best represented by Castillejo (861.32). Mendoza (861.36) represents a conciliation. A fusion of two schools follows in which the Italian wins the major influence. Thereafter appear two new schools:

1. Classic, opposed to the fusion and represented by Leon (861.33) and the Argensolas (861.34) and
2. Sicillian or Oriental (inspired specially by the Bible) of which Herrera (861.35) is standard bearer. First manifestations of "bad taste" appear (founder of school, Alonso de Ledesma 1552–1623) represented by Gongora (861.37) which despite opposition (Rioja 861.38) produces rapid decadence. "Bad taste" consisted in artificialities, exaggerations, obscurities, etc.

.31 Vega, Garcilaso de la 1503–1536.

.32 Castillejo, Cristóbal de 1494–1596.

.33 Leon, Luis Ponce de 1528–1591.

Leon is equally important in prose.

.34 Los Argensolas: Lupercio, 1563–1613; Bartolomé Leonardo 1564–1631.

.35 Herrera, Fernando de 1534–1597.

.36 Mendoza, Diego Hurtado de 1503–1575.

.37 Góngora y Argote, Luis de 1561–1627.

.38 Rioja, Francisco de 1600–1659.

.39 Minor Poets.

.4 18th century. 1700–1800.

At death of Carlos 2nd (1700) war of succession resulted in firm establishment of House of Bourbon, which, with brief interruptions, has continued to rule. Spanish political importance lost. At opening of century complete decadence, "bad taste" every where dominant. Attempts made to regenerate Spanish letters according to principles of French classicism. Little advance, however, till close of century, despite foundation of academies (Spanish Academy, 1714), and doctrinal reform in French sense, proclaimed by Luzan (1702–54) in "La Poetica," etc. Thereafter a kind of revival. Three schools formed:

1. Classic French. Moratin the elder (861.41); Cadalso (861.42); Yriarte (861.45) and Samaniego (861.44).
2. Antique National, protesting against introduction of French taste. Huerta (861.43).
3. Salamanca School, an attempt to reconcile the first two, avoiding their extravagances and conserving what was good in each. Valdés (861.46); Iglesias (861.47); Cienfuegos (861.48); Moratin the younger (862.42) and Jovellanos (868.42). "Prosaism" production of exaggerated opposition to Gongorism or "bad taste" also characterizes period. Influence of French Encyclopedism also manifest. Development of science checked by religious (Inquisition) and political despotism.

Rich development of fables and apologues in verse. Samaniego (861.44) and Yriarte (861.45). In epic, complete poverty.

.41 Moratin (The elder), Nicolás Fernandez de 1737–1780.

.42 Cadalso, José de 1741–1782.

.43 Huerta, Vicente Antonio García de la 1734–1787.

.44 Samaniego, Félix María de 1745–1801.

.45 Yriarte, Tomás de 1750–1791.

.46 Valdés, Juan Melendez 1754–1817.

.47 Iglesias de la Casa, José 1748–1791.

.48 Cienfuegos, Nicasio Álvarez de 1764–1809.

.49 Minor Poets.

861.5 **19th century.** **1800–**

Abdication of Carlos 4th, 1808; Joseph 1st (Bonaparte) 1808–13. Ferdinand 7th restored. Salic law abrogated, opening succession to daughter Isabella. Carlist insurrections (upholding Salic law) quelled. Isabella driven from throne by revolution 1868; 1871–Amadeo (Savoy house), 1873, abdicates and republic is proclaimed; Restoration of monarchy in person of Alfonso 12th in 1875.

Age, till close of Ferdinand's reign, very unfavorable to letters. Under Carlos 4th (1788–1808) despotism re-introduced and revolution followed. Policy of Ferdinand 7th, after restoration (1813–33), retrograde. An interregnum in letters. First real awaking with Espronceda (861.52). Same fluctuations as in previous period. Romantic school introduced by Zorrilla (861.53).

.51 Quintana, Manuel José 1772–1857.
.52 Espronceda, José de 1810–1842.
.53 Zorrilla y Moral, José 1817–90
.54 Gutierrez, Antonio García 1812–1884.
.55 Gil y Zárate, Antonio 1792–1861.
.56 Hartzembusch, Juan Eugenio 1806–1880.
.59 Minor Poets.

862 Spanish Drama.

.2 Age of Imitation. 1369–1516.

Evidences of existence of "mysteries" but no remains.

.21 Enzina, Juan del (?)1468–1534.
.22 Vicente, Gil (?)1450–1536.

.3 Golden Age. 1516–1700.

Drama of this period is chief glory of Spanish letters; writers show a phenomenal fecundity (at 70 "Lope" had written 1500 dramas), 30,000 dramas composed by beginning of 18th cent. At opening of period Church tried to check development of profane drama placing nearly all in the "Index." Torres Naharro (works pub. 1517) and Lope de Rueda (d. 1567) form transition from preceding period. Latter, reputed father of national theater. Lope de Vega (862.31) real founder. Drama culminates in Calderon (862.35); thereafter decadence.

.31 **Vega Carpio, Lope Felix de** 1562–1635.
.32 Cāstro y Bēlvis Guillen de 1567–1621.
.33 Tellez, Gabriel (Tirso de Molina, pseud. (?)1570–1648.
.34 Alarcon y Mendoza, Juan Ruiz de (?)1580–1639.
.35 **Calderon de la Barca, Pedro** 1600–1681.
.36 Rojas y Zorrilla, Francisco de 1607-
.37 Moreto y Cabaña, Agustin 1618–1669.
.39 Minor Dramatists.

.4 18th Century. 1700–1800.

Complete decadence of drama in last years of old monarchy. Revival in 18th cent., following French classic drama. Culminates in Moratin the younger (862.42). Opposition of National School voiced in Huerta (861.43). Discussions provoke abundant productions, fecundity rather than merit characterizing mass of writers, Comella (862.41)-Period of unrest; old ideas cannot be reëstablished, new cannot be naturalized.

For Moratin the elder, see 861.41 and Huerta, 861.43.

.41 Comella, Luciano Francisco 1716–1779.
.42 Moratin, Leandro Fernandez de 1760–1828.
.43 Cruz, Ramon de la (Light comedies) 1731–1795.
.49 Minor dramatists.

.5 19th Century. 1800–

Zorilla (861.53), Gutierrez (861.54), and Rubí (862.52) represent "romantic" movement in Spanish drama. For Gil y Zárate, see 861.55; Hartzembusch, 861.56.

.51 Martinez de la Rosa, Francisco 1789–1862.
.52 Rodriguez Rubí, Tomas 1817–1890.
.53 Bretón de los Herreros, Manuel 1796–1873.
.59 Minor dramatists.

863 Spanish Fiction.

.2 Age of Imitation. 1369–1516.

Immense vogue of books of chivalry despite legislation till publication of Don Quijote; thereafter only one written. [First part of Quijote printed 1605.]

.21 "Books of Chivalry."
.22 **"Amadis de Gaula."**
.23 "Celestina."

.3 Golden Age. 1516–1700.

Real novel replaces old books of chivalry about 1500. "Picaresca," or "rogue" novel characteristic of this period; a result of the state of society following wars of Charles 1st and Phillip 2d, e. g. Mendoza's "Lazarillo de Tormes." For Mendoza, see 861.36.

.31 Montemayor, Jorge de 1520–1561.
.32 **Cervantes Saavedra, Miguel de 1547–1616.**
.39 Minor novelists.

.4 18th Century. 1700–1800.

.5 19th Century. 1800–

For Breton de los Herreros, see 862.53; and Rodriguez Rubí, 862.52.

.51 Larra, Mariano José de [Figaro] 1809–1837.
.52 Mesonero y Romanos, Ramón de 1803–1882.
.53 Arrom, Cecilia Boehl de [Fernan Caballero] 1797–1877.
.59 Minor writers.

864 Spanish Essays.

865 Spanish Oratory.

Hardly any forensic and little sacred eloquence. When language and culture advanced, privileges of Cortes restrained. Sacred eloquence less employed by Spanish church than by French or English. Gongorism or "bad taste" conquers here as elsewhere.

.1 Early Spanish. –1369.

.2 Age of Imitation. 1369–1516.

.3 Golden Age. 1516–1700.

For Luis de Leon, see 861.33; and Luis de Granada, 868.32.

.4 18th Century. 1700–1800.

For Jovellanos, see 868.42; and Valdés, 861.46.

.5 19th Century. 1800–

.51 Olozaga, Salustiano de 1803–1873.
.52 Castelar, Emilio 1832–1899.

866 Spanish Letters.

.3 Golden Age. 1516–1700.

Naturalness of old times changed with majestic court and rigid etiquet of Charles 5th. For Santa Teresa, see 868.33.

.31 Avila, Juan de 1502–1569.
.32 Perez, Antonio 1540–1611.
.39 Minor writers.

867 Spanish Satire.

.1 **Early Spanish.** –1369.

Ruiz, Juan (Arcipreste de Hita) 1350.

.2 **Age of Imitation.** 1369–1516.

"Coplas de Mingo Revulgo."

.3 **Golden Age.** 1516–1700.

Quevedo Villegas, Francisco Gomez de 1580–1645.

.4 **18th Century.** 1700–1800.

For Cadalso, see 861.42; and Moratin the younger, 862.42.

.41 Jorge Pitillas (a pseudonym).

.42 Isla, José Francisco de (el Padre) 1703–1781.

868 Spanish miscellany.

.1 **Early Spanish.** –1369.

.11 Alfonso X., El Sábio 1221–1284.

.12 Sancho El Bravo (IV. of Castile) 1258–1295.

.13 Manuel, Juan 1282–1347.

.14 Alfonso XI. 1310–1350.

.19 Minor writers.

.2 **Age of Imitations.** 1369–1516.

General and special histories, books of travel, works called forth by Boccaccio's "Corvaccio," etc.

.3 **Golden Age.** 1516–1700.

Didactic prose. Considerable development, though less than poetry, owing in a great measure to restraints political and religious. "Bad Taste" manifests itself here as elsewhere. Luis de Granada, Santa Teresa, San Juan de la Cruz, Pedro de Rivadeneyra and Luis de Leon, representatives of Mystic School.

For Luis de Leon, see 861.33; and Quevedo y Villegas, 867.3.

.31 Mariana, Juan de, Founder of Spanish History 1536–1623.

.32 Granada, Luis de 1504–1588.

.33 Teresa de Jesús, Santa 1513–1582.

.34 Cruz, San Juan de la 1542–1591.

.35 Rivadeneyra, Pedro de 1527–1611.

.36 Saavedra Fajardo, Diego de 1584–1648.

.39 Minor Writers.

.4 **18th Century.** 1700–1800.

Under Carlos 3d (1759–'88) scientific studies took a fresh start, due largely to Feijóo who attempted intellectual emancipation of Spain. Prose advances under French influence — Gallicisms introduced.

.41 Feijóo y Montenegro, Benito Jerónimo 1676–1764.

.42 Jovellanos, Gaspar Melchor de 1744–1811.

.49 Minor writers.

.5 **19th Century.** 1800–

For Hartzembusch, J. E., see 861.56.

.51 Gayangos, Pascual de 1809–1897.

.52 Rios, José Amador de los 1818–1878.

.53 Milá y Fontanals, Manuel 1818–1884.

.59 Minor writers.

869 Portuguese Literature.

.1, Poetry; .2, Drama; .3. Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

870 Latin Literature.

.1, Philosophy; .2, Compends; .3, Dictionaries, Cyclopedias; .4, Essays; .5, Periodicals; .6, Societies; .7, Study and Teaching; .8, Collections; .9, History of Latin Literature.

871 Latin Poetry in General.

See Dramatic, Epic and Lyric below.

.1 **Lucretius Carus, Titus.** See also 187.

.2 **Ovid. (Publius Ovidius Naso.)**

.3 **Hyginus, Caius Julius.**

.4 **Faliscus, Gratius.**

.5 **Manilius, Marcus.**

.6 **Phædrus.**

.7 **Lucilius Junior. "Ætna."**

.8

872 Latin Drama.

.1 **Andronicus, Livius.**

.2 **Nævius, Cnæus.**

.3 **Plautus, Titus Maccius.**

.4 **Ennius.**

.5 **Terence. (Publius Terentius Afer.)**

.6 **Seneca, Lucius Annæus.** See also 878.5.

.7

873 Latin Epic Poetry.

.1 **Virgil. (Publius Virgilius Maro.)**

.2 **Lucanus, Marcus Annæus.**

.3 **Flaccus, Caius Valerius.**

.4 **Silius Italicus, Caius.**

.5 **Statius, Publius Papinius.**

.6

874 Latin Lyric Poetry.

.1 **Catullus, Tibullus and Propertius.**

.2 **Catullus, Valerius.**

.3 **Tibullus, Albius.**

.4 **Propertius, Sextus Aurelius.**

.5 **Horace. (Quintus Horatius Flaccus.)** See also 877.3.

.6 **Calpurnius Siculus.**

.7

875 Latin Oratory.

.1 Cicero, Marcus Tullius. Complete Works.
For Cicero's Letters see 876.1.
.2 Orations.
.3 Rhetorical Works.
.4 Philosophical Works. See also 186.3.
.5 Messala Corvinus, Marcus Valerius.
.6 Quintilian. (Marcus Fabius Quintilianus.)
.7

876 Latin Letters.

.1 Cicero, Marcus Tullius. For his other works see 875.1–875.4.
.2 Pliny. (Caius Plinius Cæcilius Secundus.)
.3 Fronto, Marcus Cornelius.
.4

877 Latin Satire and Humor.

.1 Lucilius, Caius.
.2 Cato, Valerius.
.3 Horace. See 874.5.
.4 Persius Flaccus, Aulus.
.5 Petronius Arbiter, Caius.
.6 Martial. (Marcus Valerius Martialis.)
.7 Juvenal. (Decimus Junius Juvenalis.)

878 Latin Miscellany.

.1 Cæsar, Caius Julius.
.2 Sallust. (Caius Sallustius Crispus.)
.3 Nepos, Cornelius.
.4 Livy. (Titus Livius Patavinus.)
.5 Seneca, Lucius Annæus. See also 872.6 and 188.6.
.6 Tacitus, Caius Cornelius.
.7 Suetonius Tranquillus, Caius.
.8 Curtius Rufus, Quintus.
.9 Minor Writers.

879 Mediæval and Modern Latin.

Subdivided like 820. .1, Poetry; .2, Drama; .3, Fiction; .4, Essays; .5, Oratory; .6, Letters; .7, Satire and Humor; .8, Miscellany.

880 Greek literature

.1 Philosofy .2 Compends .3 Dictionaries .4 Essays on Greek literature .5 Periodicals .6 Societies .7 Study and teaching .8 Collections .9 History of Greek literature

881 Greek poetry in general

See Dramatic, Epic, and Lyric, below

.1 Theognis
.2 Aratus
.3 Lycophron
.4 Babrius

882 Greek dramatic poetry

.1 Æschylus
.2 Sophocles
.3 Euripides
.4 Aristophanes
.5 Epicharmus
.6 Menander

883 Greek epic poetry

.1 Homer
.2 Hesiod
.3 Apollonius Rhodius
.4 Oppian
.5 'Orphic poems'

884 Greek lyric poetry

.1 Tyrtæus
.2 Sappho
.3 Anacreon
.4 Simonides of Ceos
.5 Pindar
.6 Theocritus
.7 Bion
.8 Callimachus
.9 Minor Greek lyric poets

885 Greek oratory

.1 Andocides
.2 Lysias
.3 Isæus
.4 Isocrates
.5 Æschines
.6 Demosthenes
.7 Hyperides
.8 Lycurgus
.9 Minor Greek orators

886 Greek letters

.1 Themistocles
.2 Alciphron
.3 Phalaris

887 Greek satire and humor

For comedies of Aristophanes see 882.4

.1 Archilochus
.2 Simonides of Samos
.3 Hipponax

888 Greek miscellany

.1 Herodotus
.2 Thucydides
.3 Xenophon
.4 Plato See also 184.1 also Platonic philosofy
.5 Aristotle See also 185.1 Aristotelian philosofy

Or if preferd, the works of Plato and Aristotle may be put in 184.1 and 185.1

.6 Æsop
.7 Lucian
.8 Plutarch See also 186.2
.9 Minor writers

889 Medieval and modern Greek

.1 Poetry .2 Drama .3 Fiction .4 Essays .5 Oratory .6 Letters .7 Satire and humor .8 Miscellany

890 Literature of minor languages

Subdivided like 490, Philology of minor languages. If wisht 1 Poetry; 2 Drama, etc., can be used after the language number; e. g. Russian drama is 891.72, Hebrew poetry 892.41, Bengali poetry 891.441

History

900 History in General.

901–909 all have *History in General* as their subject, but it is treated in these various *forms*. A periodical on English History goes with 942, not 905, which is only for periodicals on History in General. A Zero in any class number in any part of the classification shows the subject to be general, not specific.

901 Philosophy, Theories, etc. History of Civilization.

902 Compends, Chronologies, Charts, Outlines.

For Chronology as a Science, see 529.

903 Dictionaries, Cyclopedias, etc.

904 Essays, Lectures, Addresses.

905 Periodicals, Historical Magazines.

906 Societies, Transactions, etc.

907 Education, Methods of Teaching, Writing, etc.

See also 371.3.

908 Polygraphy, Collected Works, Extracts, etc.

909 Universal and General Modern Histories.

For General Ancient Histories, see 930.

.1 A. D. 476—1199.
.2 1200—1299.
.3 1300—1399.
.4 1400—1499.
.5 1500—1599.
.6 1600—1699.
.7 1700—1799.
.8 1800—1899.

910 Geography and Travels.

Including Topography, Maps, Antiquities, Descriptions, etc.

For map projection, see 526.9. See also 310 Statistics, 390 Customs and Costumes.

For Directories, Guide Books, Gazetteers, etc., of special countries or geographical sections, see under those sections, 914–919.

.1
.2 Traveler's Manuals, Guidebooks.
.3 Dictionaries, Gazetteers.
.4 Circumnavigations, Ocean Travel, Ship Wrecks and Disasters, Pirates.
.5 Periodicals.
.6 Societies.
.7 Study and Teaching of Geography. School Map Drawing.

See 372.8, Primary Teaching of Geography.

.8 Collections of Travels, etc.
.9 History of Geography, Travels, Explorations, etc.

911 Historic Growth and changes in political divisions, etc. Subdivided like 930-999

912 Maps, atlases, plans of cities, etc. Subdivided like 930-999

913 Antiquities, archeology, of special countries

See also 220.93, biblical antiquities; 340.3, legal antiquities; 571, prehistoric archeology; 930, ancient history; 390, special customs. 913 is divided like 930–999. Note that this 3 is not the ancient history 3. Keltic antiquities are 913.36, not 913.6, which is African

914 Europe

915 Asia

916 Africa

917 North America

918 South America

919 Oceanica and Polar regions

914–919 is subdivided like 940–999. Whenever these main geografic hedings occur they may be subdivided exactly like History. The full list of subheds is printed only under 940–999. In assigning numbers to travels, use the history tables, and *insert* 1 *after the initial* 9, and move the decimal point: e. g. Guide to N. Y. City is 917.471, for N. Y. in history tables is 974.71

920 Biografy

Including autobiografy, diaries, personal narrativs, eulogies, biografic dictionaries, etc. All biografy is here groupt together under the main classes, and subdivided in the same way with the variations indicated below for Philosofy, Theology, and Sociology, i. e. the biografy of science is divided like science itself, see 500–599. Lives of chemists are 925.4; of botanists, 925.8; of sailors, 926.56; of actors, 927.92; of the inventor of hard rubber, 926.78, etc. The rule is to give each life the number of the subject it illustrates most, or to the student of which it will be most useful

Another plan is to scatter biografy with the other books, leaving 920–928 blank, or using them only for general works, cross references, etc. This simply omits the first two figures 92, and the life of a botanist is 580 insted of 925.8, and goes with botanic books

Lives which will not go under any hed without "forcing" are best put in a single alfabet under the 3 figures 920 for men and under 920.7 for women

General and collectiv by localities

Including only collected lives too general to go under any subject heding

.01 Universal
.02 Partial collections not limited to any special country or subject
.03 Ancient
.04 Of Europe
.05 " Asia
.06 " Africa
.07 " North America
.08 " South America
.09 " Oceanica

Individual and Collective by Subjects.

920.1 **Bibliographers.**
.2 **Librarians.**
.3 **Encyclopædists.**
.4 **Publishers. Booksellers.**
.5 **Journalists.**
.6 **Academicians.**
.7 **Women.** Collected, and individual lives not clearly going with any subject.
.8 **Eccentrics, Cranks, Fools, Insane, &c.** See also 132.1, Insanity.
.9 **Other special classes not included in 921–928, e. g., Phrenologists, Somnambulists, Mind Readers, Magicians, &c.**

921 Of Philosophy.

.1 **American**
.2 **English. Scotch.**
.3 **German.**
.4 **French.**
.5 **Italian.**
.6 **Spanish.**
.7 **Slavic.**
.8 **Scandinavian and Other Modern.**
.9 **Ancient. Oriental. Patristic. Scholastic.** See 180–189.

922 Of Religion. Clergy, Missionaries, Preachers.

922.1–922.88 may be subdivided for nationality like 930–999.

.1 **Primitive (Apostles, Fathers, &c.), Oriental, Greek, Russian.** See 225.92, New Testament biography.
.2 **Roman Catholic. Popes, Cardinals, &c.**
.21 Lives of popes.
.3 **Anglican and Protestant Episcopal.**
.4 **Continental Protestant. Lutheran, Huguenot.**
.5 **Presbyterian and Congregational.**
.6 **Baptist.**
.7 **Methodist.**
.8 **Unitarian, Universalist, and other.**
.81 Unitarian. Universalist.
.82 Campbellite.
.83 Adventist.
.84 New church or Swedenborgian.
.85 Catholic apostolic.
.86 Quaker.
.87 Mennonite.
.88 Shaker.
.89 Other minor Christian sects.

922.9 **Non-Christian. Atheists.**
.91 Atheists
.92
.93
.94 Brahman. **Buddhist.**
.95 Parsee.
.96 Jews.
.97 Mohammedan.
.98 Mormon.
.99 **Minor non-Christian religions.**

923 Of Sociology.

923.1–923.8 may be subdivided for nationality, as in 930–999; e. g., the life of an English king is 923.142; of a Russian czar, 923.147; of a Chinese general, 923.551.

.1 **Chief Rulers. Kings, Queens, Emperors, Presidents.**
.2 **Political Science. Legislative Dept., Governors, Politicians, Statesmen, Nobles, &c.** For slaves, see 326.92.
.3 **Political Economy. Bankers, Capitalists, Financiers.**
.4 **Law. Judiciary Dept., Lawyers, Judges.**
.41 Criminals.
For lives of pirates see 910.4
.5 **Administration. Army and Navy, Civil Service.**
.6 **Associations and Institutions. Philanthropists, &c.**
.7 **Education. Teachers, School Officers, Educators.**
.8 **Commerce and Communication. R. R. Officials, Merchants, &c.**
.9 **Manners and Customs. Society, Travelers, Discovery.**

924 Of Philology.
925 „ Science.
926 „ Useful Arts.
927 „ Fine Arts.
928 „ Literature.

See note under 920 about subdividing. It is seldom wise to use more than 4 figures, unless in a large special collection; e. g., in a music library, lives of pianists may be separated as 927.86. Professors known as specialists go with the subject taught rather than with teachers; e. g., a professor of geology 925.5; but if more prominent as an educator than as a geologist he goes in 923.7.

In adding figures for the subdivisions of Literature (as in 810–899) Historians are put with miscellaneous authors as 8, i. e., Gibbon's life is 928.28; 928.31 is life of a German poet, and 928.691 is life of a Portuguese poet.

929 Genealogy and Heraldry.

.1 **Genealogies.**
.2 **Families.**
.3 **Registers of Births, Baptisms, Marriages, Deaths.**
.4 **Names of Persons and Places.**
.5 **Epitaphs.**

929.6 **Heraldry.**

.7 **Peerage, precedence, titles of honor.**
.71 **Orders of knighthood.**
.711 St. John of Jerusalem.
.712 Templars.
.713 Teutonic knights.
.714 Garter.
.715 Golden Fleece.
.716 Holy Ghost.
.717
.718
.719

.72 **Great Britain and Ireland.**
.721 Peerage.
.722 Baronetage.
.723 Knightage.
.724 Dignities, precedence.
.725 Landed gentry.
.726 **Visitations.** Alphabeted by counties.

.73 **Germany**
.74 **France**
.75 **Italy**
.76 **Spain**
.77 **Russia**
.78 **Scandinavia**
} Divided like 929.72.
.79 **Minor countries.**
Divided like 949; minor countries outside Europe are put together in 929.790.

.8 **Coats of Arms, Crests.**
.9 **Flags.**

930 Ancient History. To A. D. 476.

931 China.

932 Egypt.

933 Judea.

934 India.

935 Medo-Persia.

- .1 Chaldæa.
- .2 Assyria. Nineveh.
- .3 Media.
- .4 Babylonia.
- .5 Persia.
- .6 Parthia.
- .7 New Persian or Sassanian.
- .8 Mesopotamia.
- .9 Susiana.

936 Kelts.

937 Rome. Italy.

Period Divisions.

.01	Kings.	753-509	B. C.
.02	Republic.	509- 31	„
.03	Conquest of Italy.	509-264	„
.04	Punic Wars.	264-146	„
.05	Civil Strife.	146- 31	„
.06	Empire.	31 B. C.-476	A. D
.07	Constitutional.	31 „ -284	„
	Augustus—Illyrian Emperors.		
.08	Absolute.	284-476	„
.09	Division of Empire.	395-476	„
	Barbarian Conquests and Fall of Western Empire.		

Geographical Divisions.

- .1 Liguria.
- .2 Gallia Cisalpina.
- .3 Venetia. Istria.
- .4 Umbria. Picenum. Sabini, etc.
- .5 Etruria.
- .6 Latium, Rome.
- .7 Southern Italy: Campania, Samnium, Apulia, etc.
- .8 Sicily, Syracuse.
- .9 Sardinia. Corsica.

938 Greece.

Period Divisions.

.01	Mythical Age.	To 776	B. C.
.02	Growth of States.	775-500	„
.03	Persian Wars. Union of Greece.	500-479	„
.04	Athenian Supremacy.	479-431	„
.05	Peloponnesian War.	431-404	„
.06	Spartan and Theban Supremacy.	404-362	„
.07	Macedonian Supremacy.	362-323	„
.08	Roman Conquest of Greece.	323-146	„
.09	Greek Subjection	146 B. C.-323	A. D.

Byzantine Empire is put 949.5.

Geographical Divisions.

- .1 Macedonia.
- .2 Thessaly. Epirus.
- .3 Acarnania. Ætolia. Locris. Doris. Phocis. Ithaca.
- .4 Bœotia. Megaris. Eubœa.
- .5 Attica.
- .6 Peloponnesus.
- .7 Corinthia. Achaia.
- .8 Elis. Arcadia. Argolis.
- .9 Messenia. Laconia. Sparta.

939 Minor Countries.

- .1 Grecian Archipelago.
  - .11, Northern Islands: Thasos, Lemnos, etc.; .12, Lesbos; .13, Chios, etc.; .14, Samos, etc.; .15, Cyclades; .16, Rhodes, etc.; .17, Carpathos; .18, Crete.
- .2 Western Asia Minor.
  - .21, Mysia, Troas; .22, Lydia; .23, Ionia; .24, Caria; .25, Bithynia; .26, Phrygia; .27, Pisidia; .28, Lycia; .29, Pamphylia.
- .3 Eastern Asia Minor.
  - .31, Paphlagonia; .32, Galatia; .33, Pontus; .34, Cappadocia; .35, Cilicia; .36, Commagene; .37, Cyprus.
- .4 Syria.
  - .41, Upper Syria; .42, Cœle Syria; .43, Palmyra; .44, Phenicia, Tyre; .45, Palestine: Hittites, Philistines, etc.; .46 Edom, Moab, Bashan, etc.; .47, Arabia; .48, Arabia Petræa, Sinai.
- .5 North Western Asia.
  - .51, Scythia; .52, Sarmatia Asiatica; .53, Colchis; .54, Iberia; .55, Armenia; .56, Albania.
- .6 South Central Asia.
  - .61, Sogdiana; .62, Hyrcania; .63, Margiana; .64, Bactriana; .65, Ariana.
- .7 Minor African Countries.
  - .71, Mauritania; .72, Numidia; .73, Africa Propria, Carthage; .74, Syrtica Regio; .75, Cyrenaica; .76, Marmarica; .77, Libya, Gætulia; .78, Æthiopia.
- 8 South Eastern Europe.
  - .81, Sarmatia Europa; .82, Dacia; .83, Vindelicia; .84, Rhætia; .85, Noricum; .86, Pannonia; .87, Illyria; .88, Mœsia; .89, Thracia.

Modern History

940 Europe.

From the fall of Western Empire (Rome), A. D. 476.

.1	**Medieval Europe.**	476–1453.
	For Byzantine Empire see 949.5.	
.2	**Rise of New Nations.**	476–800.
.3	**Age of Feudalism.**	800–1100.
	See 321.3.	
	Charlemagne. 768–814.	
	Norman Conquests.	
.4	**Age of Chivalry.**	1100–1453.
	The Crusades. To fall of Eastern Empire (Constantinople), 1453	
	For Church History see 270.4–270.5.	
.5	**Modern Europe.**	1453——
.6	**The Renaissance Period.**	1453–1517.
	Discoveries and Inventions.	
.7	**Age of the Reformation.**	1517–1789.
	The 30 Years' War. 1618–1648.	
.8	**Napoleonic Period.**	1789–1815.
.9	**Current History.**	1815——

941 Scotland.

Period Divisions.

.01	Gaelic Period.	–1097.
.02	English Period.	1097–1314.
	Struggle for National Freedom.	
.03	Independent Kingdom.	1314–1424.
.04	The Jameses.	1424–1557.
.05	Reformation.	1557–1603.
.06	Union of Crowns and Parliaments.	1603–1707.
.07	Hanover.	1707–1837.
.08	Victoria.	1837–
.09		

Geographical Divisions.

.1 Northern Scotland.

.11, Shetland; .12, Orkney; .13, Caithness; .14, Sutherland; .15, Cromarty; .16, Ross; .17, Hebrides.

.2 North Central Scotland.

.21, Inverness; .22, Nairn; .23, Elgin; .24, Banff; .25, Aberdeen; .26 Kincardine.

.3 South Central Scotland.

.31, Forfar; .32, Perth; .33, Fife; .34, Kinross; .35, Clackmannan; .36 Sterling; .37, Dunbarton; .38, Argyll; .39, Bute.

.4 Southern Scotland.

.41, Renfrew; .42, Ayr; .43, Lanark; .44, Linlithgow, Edinburgh; .45 Haddington, Berwick; .46, Peebles, Selkirk; .47, Roxburgh; .48 Dumfries; .49, Kirkcudbright, Wigton.

941.5 Ireland.

Period Divisions.

.51	Early History.	–1086.
.52	Separate Kingdoms.	1086–1172.
	Conquest by Henry II.	
.53	Plantagenet.	1172–1399.
.54	Lancaster and York.	1399–1485.
.55	Tudors.	1485–1603.
.56	Stuarts.	1603–1691.
	Closing with Treaty of Limerick.	
.57	Hanover.	1691–1801.
	Closing with the Union.	
.58	19th Century.	1801–
.59		

Geographical Divisions.

.6 Ulster.

.61, Antrim; .62, Londonderry; .63, Donegal; .64, Tyrone; .65, Down; .66, Armagh; .67, Monaghan; .68, Fermanagh; .69, Cavan.

.7 Connaught.

.71, Leitrim; .72, Sligo; .73, Mayo; .74, Galway; .75, Roscommon.

.8 Leinster.

.81, Longford, West Meath; .82, Meath, Louth; .83, Dublin; .84, Wicklow; .85, Kildare; .86, King's Co.; .87, Queen's Co.; .88, Carlow, Wexford; .89, Kilkenny.

.9 Munster.

.91, Waterford; .92, Tipperary; .93, Clare; .94, Limerick; .95, Cork; .96, Kerry.

942 England.

Period Divisions.

For specially minute work the 6th figure printed for each sovereign may be used; e. g., Henry VII is 942.051.

.01	Anglo-Saxon.	B. C. 55–A. D. 1066.
	Prehistoric, Roman, British, Danish.	
.02	Norman.	1066–1154.
	1, William I. 1066–1087; 2, William II. 1087–1100; 3, Henry I. 1100–1135; 4, Stephen 1135–1154.	
.03	Plantagenet.	1154–1399.
	1, Henry II. 1154–1189; 2, Richard I. 1189–1199; 3, John 1199–1216; 4, Henry III. 1216–1272; 5, Edward I. 1272–1307; 6, Edward II. 1307–1327; 7, Edward III. 1327–1377; 8, Richard II. 1377–1399.	

942.04 Lancaster and York. 1400–1485.

1, Henry IV. 1399–1413; 2, Henry V. 1413–1422; 3, Henry VI. 1422–1461; 4, Edward IV. 1461–1483; 5, Edward V. 1483; 6, Richard III. 1483–1485.

.05 Tudor. 1485–1603.

1, Henry VII. 1485–1509; 2, Henry VIII. 1509–1547; 3, Edward VI. 1547–1553; 4, Mary 1553–1558; 5, Elizabeth 1558–1603. See 272.7.

.06 Stuart. 1603–1714.

1, James I. 1603–1625; 2, Charles I. 1625–1649; 3, Commonwealth 1649–1653; 4, Oliver Cromwell 1653–1658; 5, Richard Cromwell 1658–1659; 6, Charles II. 1660–1685; 7, James II. 1685–1688. 8, William III. 1689–1702; 9, Anne 1702–1714.

.07 Hanover. 1714–1837.

1, George I. 1714–1727; 2, George II. 1727–1760; 3, George III. 1760–1820; 4, George IV. 1820–1830; 5, William IV. 1830–1837.

.08 Victorian

1 Victoria 1837–1901; 2 Edward VII 1901–1910; 3 George V 1910–

Geographical Divisions.

.1 Middlesex. London.

.2 Southeastern.

.21, Surrey; .23, Kent; .25, Sussex; .27, Hants; .28, Isle of Wight; .29, Berks.

.3 Southwestern.

.31, Wilts; .33, Dorset; .34, Channel Islands; .35, Devon; .37, Cornwall; .38, Somerset.

.4 West Midland

.41, Gloucester; .43, Monmouth; .44, Hereford; .45, Salop; .46, Stafford; .47, Worcester; .48, Warwick.

.5 North and South Midland.

.51, Derby; .52, Notts; .53, Lincoln; .54, Leicester, Rutland; .55, Northampton; .56, Huntington, Bedford; .57, Oxford, Buckingham; .58, Hertford; .59, Cambridge.

.6 Eastern.

.61, Norfolk; .64, Suffolk; .67, Essex.

.7 Northwestern and Yorkshire.

.71, Cheshire; .72, Lancashire; .74, Yorkshire.

.8 Northern.

.81, Durham; .82, Northumberland; .85, Cumberland; .88, Westmoreland; .89, Isle of Man.

.9 Wales.

.91, Anglesey; .92, Carnarvon, Merioneth; .93, Denbigh, Flint; .94, Montgomery; .95, Cardigan; .96, Radnor, Brecknock; .97, Glamorgan; .98, Carmarthen; .99, Pembroke.

943 Germany and Austria.

Period Divisions.

.01 Formative Period.

Wars with Rome. Charlemagne 800–814; Louis I 814–840; Lothaire I 840–843.

.02 Empire before the Reformation.

1, **Carolingian,** 843–911: Louis II 843–876; Charles II 876–877; Charles III 877–887; Arnulf 887–899; Louis III 900–911.

2, House of Franconia: Conrad I 911–918; House of **Saxony,** 919–1024: Henry I 919–936; Otto I 936–973; Otto II 973–983; Otto III 983–1002; Henry II 1002–1024.

3, House of **Franconia,** 1024–1125: Conrad II 1024–1039; Henry III 1039–1056; Henry IV 1056–1106; Henry V 1106–1125; House of Saxony: Lothaire II 1125–1137.

4, House of **Hohenstaufen,** 1137–1197: Conrad III 1138–1152; Frederick I 1152–1190; Henry VI 1190–1197.

5, House of **Hohenstaufen** and **Interregnum,** 1198–1272: Philip 1198–1208; Otto IV 1208–1212; Frederick II 1212–1250; Conrad IV 1250–1254; William of Holland 1254–1256; Richard of Cornwall 1256–1272.

6, Houses of **Hapsburg, Luxemburg,** etc., 1273–1378: Rodolph I 1273–1291; Adolphus 1291–1298; Albert I 1298–1308; Henry VII 1308–1313; Louis IV 1313–1347; Charles IV 1347–1378.

7, **Interregnum,** 1378–1437: Wenceslaus 1378–1400; Rupert 1400–1410; Sigismund 1410–1437.

8, Albert II 1438–1439; Frederick III 1440–1493.

9, Maximilian I 1493–1519.

.03 Reformation to 1618. 1517–1618.

1, Charles V 1519–1556; 2, Ferdinand I 1556–1564; 3, Maximilian II 1564–1576; 4, Rodolph II 1576–1612; 5, Matthias 1612–1619.

.04 Disintegration. 1618–1705.

1, Thirty Years' War 1618–1648; 2, Ferdinand II 1619–1637; 3, Ferdinand III 1637–1657; 4, Leopold I 1658–1705.

.05 Rise of Prussia. 1705–1789.

1, Joseph I 1705–1711; 2, Charles VI 1711–1740; 3, 1740–1742; 4, Charles VII 1742–1745; 5, Francis I 1745–1765; *6, Seven Years' War 1756–1763;* 7, Joseph II 1765–1790.

.06 Napoleonic Wars. 1789–1815.

Leopold II 1790–1792; Francis II 1792–1806; Confederation of the Rhine 1806–1815.

.07 Reorganization. 1815–1866.

.08 New German Empire. 1866–

1, North German Confederation 1866–1871; 2, Franco-German War 1870–1871; 3, William I 1871–88; 4, Frederick 1888; William II 1888–

Geographical Divisions of Germany and Austria.

943.1 Prussia and Northern Germany.

943 .11, East Prussia; .12, West Prussia; .13, Posen; .14, Silesia; .15, Brandenburg; .16, Pomerania; .17, Mecklenburg and Lubeck; .18, Prussian Saxony; .19, Anhalt.

.2 Central Germany.

.21, Saxony; .22, **Thuringia;** .23, Saxe-Weimar; .24, Saxe-Altenburg; .25, Saxe-Gotha-Coburg; .26, Saxe-Meiningen; .27, Schwartzburg; .28, Reuss.

943.3 **Bavaria.**

.31, Upper Franconia; .32, Middle Franconia; .33, Lower Franconia; .34, Upper Palatinate; .35, Lower Bavaria; .36, Upper Bavaria; .37, Suabia.

.4 **Southern Germany.**

.41, Hesse Darmstadt; .42, Rhenish Prussia; .43, Rhenish Bavaria; .44, Alsace; .45, Lorraine; .46, Baden; .47, Wurtemburg; .48, *Black Forest* and *Danube*; .49, Hohenzollern.

.5 **Northwest Germany.**

.51, Schleswig-Holstein and Hamburg; .52, Oldenburg and Bremen; .53, Hanover; .54, Brunswick; .55, Lippe; .56, Westphalia; 57, Waldeck; .58, Hesse-Nassau.

943.6 Austria.

.61, Lower Austria; .62, Upper Austria; .63, Salzburg; .64, Tyrol; 65, Styria; .66, Carinthia; 67, Carniola; .68, Istria; .69, Dalmatia.

.7 **Bohemia, etc.**

.71, Bohemia; .72, Moravia; 73, Silesia; .74, Galicia; .75, Bukowina.

.8 **Poland.** Including the history before the division.

.9 **Hungary, etc.**

.91, Hungary; .92, Transylvania; .93, Slavonia; .94, Croatia, Fiume; .95 Bosnia; .96, Herzegovina.

944 France.

Period Divisions.

.01 Early History. -987.

Ancient Celts -59 B. C.; Roman Dominion 59 B. C.-418 A. D.; Merovingian Dynasty 428-752; Carolingian 752-987.

.02 Capet and Valois. 987-1589.

House of **Capet.**

1, Hugh Capet 987-996; Robert II 996-1031; Henry I 1031-1060.
2, Philip I 1060-1108; Louis VI 1108-1137; Louis VII 1137-1180.
3, Philip II 1180-1223; Louis VIII 1223-1226; Louis IX 1226-1270.
4, Philip III 1270-1285; Philip IV 1285-1314; Louis X 1314-1316; John I 1316; Philip V 1316-1322; Charles IV 1322-1328.

House of **Valois.**

5, Philip VI 1328-1350; John II 1350-1364; Charles V 1364-1380.
6, Charles VI 1380-1422; Charles VII 1422-1461.
7, Louis XI, 1461-1483; Charles VIII 1483-1498; Louis XII 1498-1515.

House of **Angoulême.**

8, Francis I 1515-1547; Henry II 1547-1559.
9, Francis II 1559-1560; Charles IX 1560-1574; Henry III 1574-1589.

.03 **Bourbon.** 1589-1789

1, Henry IV 1589-1610; 2, Louis XIII 1610-1643; 3, Louis XIV 1643-1715; 4, Louis XV 1715-1774; 5, Louis XVI 1774-1789.

.04 Revolution. 1789-1804.

1, National Assembly 1789-1792; 2, First Republic 1792-1799; 3, Convention, 1792-1795; 4, Reign of Terror; May 1793-July 1794; 5, Directory 1795-1799; 6, First Consulate, Napoleon, 1799-1804.

.05 First Empire. 1804-1815.

Napoleon I 1804-1814; Louis XVIII 1814-1815; The Hundred Days March 20-June 29, 1815.

944.06 Restoration. 1815-1848.

1, Louis XVIII 1815-1824; 2, Charles X 1824-1830; 3, Louis Philippe 1830-1848.

.07 Second Republic and Second Empire. 1848-1870.

Revolution of 1848; Second Republic, Louis Napoleon, Pres., 1848-1852 Napoleon III 1852-1870.

.08 Third Republic. 1870-

Franco-German War, Government of National Defence 1870-1871; National Assembly 1871; Presidency of Thiers 1871-1873; McMahon 1873-1879; Grévy 1879-87, Sadi-Carnot 1887-94; Casimir Périer 1894-95; Faure 1895-99; Loubet 1899-1906; Fallières 1906-

Geographical Divisions of France.

944.1 **Brittany. Maine. Anjou.**

.11, Finistère; .12, Côtes du Nord; .13, Morbihan; 14, Loire Inférieure; 15, Ille et Vilaine; 16, **Maine**: Mayenne; 17, Sarthe; 18, **Anjou**: Maine et Loire.

.2 **Normandy. Picardy.**

.21, Manche; .22, Calvados; .23, Orne; 24, Eure; 25, Seine Inférieure; 26, **Picardy**: Somme; 27, **Artois**: Pas de Calais; 28, Nord.

.3 **Champagne. Isle de France. Lorraine.**

.31, Ardennes; .32, Marne; .33, Aube, Haute Marne; .34, **Isle de France**: Aisne; .35, Oise; 36, Seine et Oise, Paris; .37, Seine et Marne; .38, **Lorraine**: Meuse, Moselle; 39, Meurthe, Vosges.

.4 **Burgundy. Franche Comte. Savoy.**

.41, Yonne; .42, Côte d'Or; .43, Saône et Loire; .44, Ain; .45, **Franche Comté**: Haute Saône, Belfort; .46, Doubs; .47, Jura; .48, **Savoy**: Savoie; .49, Haute Savoie.

.5 **Orleans, etc. Auvergne.**

.51, Eure et Loir; .52, Loiret; .53, Loir et Cher; 54, **Touraine**: Indre et Loir; .55, **Berry**: Indre, Cher; .56, **Nivernais**: Nièvre; .57, **Bourbonnais**: Allier; .58, **Lyonnais**: Loire, Rhône; .59, **Auvergne**: Puy de Dôme, Cantal.

.6 **Poitou. Limousin.**

.61, Vendée; .62, Deux Sèvres; .63, Vienne; .64, Charente Inférieure; .65, Charente; .66, **Limousin**: Haute Vienne; .67, Corrèze; .68, **Marche**: Creuse.

.7 **Guienne. Gascony.**

.71, Gironde; .72, Dordogne; .73, Lot; .74, Aveyron; .75, Tarn et Garonne; .76, Lot et Garonne; .77, **Gascony**: Landes, Gers; .78, Hautes Pyrénées; .79, **Bearn**: Basses Pyrénées.

.8 **Languedoc.**

.81, Haute Loire, Lozère; .82, Ardèche; .83, Gard; .84, Hérault; .85, Tarn; .86, Haute Garonne; .87, Aude; .88, **Foix**: Ariége; .89, Pyrénées Orientales.

.9 **Provence. Dauphiny.**

.91, Bouches du Rhône; .92, Vaucluse; .93, Var; .94, Alpes Maritimes; .95, Basses Alpes; 96, **Dauphiny**; 97, Hautes Alpes; 98, Drôme; 99, Isère.

945 Italy.

Period Divisions.

.01	Gothic and Lombard Kingdoms.	476–774.
.02	Frankish Emperors.	774–961.
.03	German Emperors.	962–1122.
	Hildebrand and Papal Supremacy.	
.04	Age of the Communes.	1100–1300.
	Free Cities. Strifes of Guelphs and Ghibelines.	
.05	Age of the Despots.	1300–1492.
.06	Age of Invasions.	1492–1527.
.07	Spanish-Austrian Ascendancy.	1527–1796.
.08	Struggle for Independence.	1796–1870.
.09	United Italy.	1870–
	Victor Emanuel, Cavour, Garibaldi.	

Geographical Divisions of Italy.

945.1 **Piedmont and Liguria.**

.2 **Lombardy.**

.3 **Venetia.**

.4 **Emilia.**

.5 **Tuscany.**

.6 **Marches, Umbria and Latium.**

.7 **Naples.**

.7, Abruzzo and Molise; .72, Campania; .73, Napoli; .74, Salerno; .75, Apulia; .76, Lecce, Terra di Otranto; .77, Basilicata, Potenza; .78, Calabria; .79, Reggio di Calabria.

.8 **Sicily. Malta.**

.9 **Sardinia and Corsica.**

946 Spain.

Period Divisions.

.01	Early History. Roman Dominion. Gothic Kingdom.	—— 711.
.02	Moorish Kingdom.	711–1479
.03	Ferdinand V and Isabella.	1479–1516
	Discovery.	
	Expulsion of the Moors.	
.04	Charles I and Philip II.	1516–1598.
	Inquisition. War with the Netherlands. Armada. Charles I (V of Germany) 1516–1556; Philip II 1556–1598.	
.05	Philip III.—Charles IV.	1598–1808.
	Degeneration. 1, Philip III 1598–1621; 2, Philip IV 1621–1665; 3, Charles II 1665–1700; 4, House of **Bourbon**: 5, Philip V 1700–1746; 6, Ferdinand VI 1746–1759; 7, Charles III 1759–1788; 8, Charles IV 1788–1808.	
.06	Peninsular War.	1808–1814.
	Joseph Bonaparte.	
.07	Bourbon Restoration.	1814–1868.
	Attempts at Reform.	
	Ferdinand VII 1814–1833; Isabella II. 1833–1868.	
.08	Later 19th Century.	1868 ——
	Revolution of 1868–1870; Amadeus 1870–1873; Republic 1873–1875; Alfonso XII 1875–85; Alfonso XIII 1886–	

Geographical Divisions of Spain.

946.1 **Galicia. Asturias.**

.2 **Leon. Estramadura.**

.3 **Old Castile.**

.4 **New Castile.**

.5 **Aragon.**

.6 **Basque Provinces.**

.7 **Catalonia. Balearic Isles. Valencia. Murcia.**

.8 **Andalusia. Canary Isles.**

.9 **Portugal.**

.98, Madeira; .99, Azores.

947 Russia.

Period Divisions.

.01	Primitive Russia.	—— 862.
.02	Varangian Kingdom.	862–1237.
	Conversion to Christianity.	
.03	Mongolian Invasion.	1237–1462.
	Civil Wars.	
.04	Ivan III—Ivan V.	1462–1689.
	Origin of Serfdom.	
.05	Peter the Great.	1689–1725.
	Wars with Sweden and Turkey.	
.06	Catharine I—Catharine II.	1725–1796.
	Partition of Poland.	
.07	Paul I—Nicholas I.	1796–1855.
	War with Napoleon.	
	Insurrection of Poland.	
	Crimean War. See also 942.08; 944.07; 945.08; 949.6.	
.08	Alexander II—	1855–1881.
	Emancipation of the Serfs.	
	Turko-Russian War.	
	Alexander III—	1881–

Geographical Divisions of Russia.

947.1 **Finland. Lapland.**

.2 **Northern Great Russia.**

Archangel; Vologda; Olonetz; Novgorod.

.3 **Southern Great Russia.**

.4 **Baltic Provinces.**

Courland; Livonia; Esthonia; St. Petersburg.

.5 **Russian Poland.**

.6 **West Russia.**

.7 **Little Russia. South Russia.**

.8 **East Russia.**

.9 **Caucasia.**

948 Norway, Sweden, and Denmark.

Period Divisions.

.01 Legendary Period. —— 800.
.02 Consolidation. Migration. 801–1397.
Introduction of Christianity.
Discovery of Iceland, Greenland, and America.
Conquest of Britain and Normandy.
.03 Union of the three kingdoms. 1397–1523.
Civilization. Foreign relations.
.04 The Reformation. 1523–1648.
Edict of Toleration, 1527.
30 Years' War. Gustavus Adolphus.
.05 Decline. 1648–1792.
Wars, vs. Denmark, Poland, Russia.
Political changes.
.06 Napoleonic Wars. 1792–1818.
Union of Norway and Sweden, 1814.
.07 Charles XIV. (Bernadotte). 1818 ——.
Peace. Internal reform.
.08

Geographical Divisions.

.1 Norway.
.2 Christiania.
.3 Christiansand. Bergen.
.4 Hamar. Throndhjem. Tromso.
.5 Sweden.
.6 Gothland.
.7 Svealand.
.8 Norrland.
.9 Denmark.

949 Minor Countries of Europe.

.1 **Iceland. Faroe Islands.**

01, Commonwealth, –1264; 02, Mediævalism, 1264–1551; 03, Absolute Rule, Decay, 1551–1848; 04, Modern Iceland, 1848 ——.

.2 **Netherlands.**

01, Early History, –1477; 02, Austrian Dominion, 1477–1566; 03, Wars for Independence, 1566–1648; 04, Age of Prosperity, 1648–1795; 05, Revolutionary, 1795–1830; 06, 19th Century, 1830 ——.

.3 **Belgium.**

.4 **Switzerland.**

01, Early History, –1300; 02, Struggle for Independence, 1300–1499; 03, Reformation, 1499–1648; 04, Period of Tranquillity, 1648–1789; 05, Period of Revolution, 1789–1815; 06, 19th Century, 1815 ——.

949.5 **Byzantine Empire and Modern Greece.**

01, Greek Revival. 323–716.
Constantine the Great — Theodosius III.
02, Byzantine Prosperity. 716–1057.
Leo III — Michael VI.
03, Byzantine Decline. 1057–1204.
Isaac I — Latin conquest of Constantinople.
04, Greek Survival. 1204–1453.
Constantinople taken by the Turks, 1453.
05, Turkish Power. 1453–1821.
06, Greek Independence. 1821 ——.

.6 **Turkey in Europe.** .61, Constantinople.
.7 **Servia. Bulgaria. Montenegro.**
.8 **Roumania: Wallachia, Moldavia.**
.9 **Islands of Grecian Archipelago.**
Divided like 939.1.

950 Asia.

951 China.

.1, N. E. China, Peking; .2, S. E. China, Canton, Hong Kong, Formosa; .3, S. W. China; .4, N. W. China; .5, Thibet; .6, East Turkestan; .7, Mongolia; .8, Manchuria; .9, Corea.

952 Japan.

953 Arabia.

.1, Sinai; .2, Hejaz, Mecca; .3, Yemen; .4, Hadramaut, Mahrah; .5, Oman; .6, Hasa; .7, Dahna; .8, Nejd; .9, Syrian Desert.

954 India.

.1, Bengal, Orissa, Assam, Bhotan; .2, Northwest Provinces, Oudh, Nepal; .3, Central Provinces; .4, Rajputana; .5, Punjab, Delhi, Lahore; .6, Cashmere; .7, Bombay, Sind, Baroda; .8, Madras, Mysore, Travancore, Ceylon; .9, Hyderabad.

955 Persia.

956 Turkey in Asia. See also 949.6.

.1, Khodavendikyar; .2, Aidin, Smyrna; .3, Kastamuni, Angora; .4, Konieh, Adana, Cyprus; .5, Trebizond, Sivas; .6, Erzerum, Diarbekr, Karpoot; .7, Bagdad, Kurdistan; .8, Aleppo; .9, Damascus, Phenicia, Palestine.

957 Siberia.

958 Afghanistan. Turkestan. Baluchistan.

.1, N. E. Afghanistan, Cabul; .2, South Afghanistan, Candahar; .3, N. W. Afghanistan, Herat; .4, Turkestan; .5, Kiva; .6, Bokhara; .7, Ferghana or Khokan; .8, Baluchistan.

959 Farther India.

.1, British Burmah; .2, Burmah; .3, Siam; .4, Laos; .5, Lower Siam, Malay Peninsula; .6, Cambodia; .7, French Cochin China; .8, Anam; .9, Tonkin.

960 Africa.

961 North Africa.

.1, Tunis; .2, Tripoli; .3, Fezzan.

962 Egypt.

.1, Lower Egypt, Alexandria, Cairo; .2, Middle Egypt; .3, Upper Egypt, Thebes; .4, Nubia; .5, Dongola; .6, Egyptian Soudan, Kartum; .7, Darfur; .8, Kordofan; .9, Sennaar.

963 Abyssinia.

964 Morocco.

965 Algeria.

966 North Central Africa.

.1, Sahara; .2, Soudan; .3, Senegambia; .4, Sierra Leone; .5, Upper Guinea; .6, Liberia; .7, Ashantee; .8, Dahomey; .9, Gold Coast.

967 South Central Africa.

.1, Lower Guinea; .2, Loango, Congo; .3, Angola, Benguela; .4, Interior; .5, Congo Basin; .6, Central Lake Region; .7, Somali; .8, Zanzibar; .9, Mozambique.

968 South Africa.

.1, Sofala; .2, Transvaal; .3, Zululand; .4, Natal; .5, Orange Free State; .6, Kaffraria; .7, Cape Colony; .8, West Coast; .9, Interior.

969 Madagascar. Mauritius.

970 North America.

.1, Indians, Aborigines; .2, Lives of Indians; .3, Special Tribes; .4, Special States; .5, Government Relation and Treatment; .6, Special Subjects, Character, Civilization, Agriculture, etc.

See 371.95, Education; 572.97, Ethnology; 497, Languages.

971 Canada. British America.

.1 British Columbia.

.2 North-West Territory.

.21, ; .22, Athabasca; .23, Alberta; .24, Saskatchewan; .25, Assiniboia; .26, Keewatin; .27, Manitoba; .28, N. E. Territory.

.3 Ontario.

.4 Quebec.

.5 New Brunswick.

.6 Nova Scotia.

.7 Prince Edward Island.

.8 Newfoundland.

.9 Labrador.

972 Mexico Central America

Period divisions

.01	Ancient civilization 1 Toltec 2 Chichimec 3 Tarascan 4 Aztec 5 Maya	—— 1516
.02	Discovery and Spanish rule	1516–1810
.03	Independence	1810–1822
.04	First empire Iturbide 1 Pronunciamientos	1822–1845
.05	War with United States. See also 973.6	1845–1848
.06	Constitution of '57 Reform	1848–1861
.07	French intervention	1861–1867
.08	Later history	1867 ——

Geografic divisions

.1 **Free zone and Northern states**
Tamaulipas, Nuevo Leon, Cohahuila, Chihuahua, Sonora, Durango

.2 **Lower California and ilands**

.3 **Central Pacific states**
Sinaloa, Jalisco, Colima, Michoacan

.4 **Interior states**
Zacatecas, San Luis Potosi, Aguascalientes, Guanajuato Querétaro, Hidalgo, Puebla, Tlascala, Morelos

.5 **Mexico Federal district**

.6 **Southern Gulf states**
Veracruz, Tabasco, Campeche, Yucatan

.7 **Southern Pacific states**
Guerrero, Oaxaca, Isthmus of Tehuantepec, Chiapas

.8 Central America

.81 Guatemala
.82 British Honduras Belize
.83 Honduras
.84 San Salvador
.85 Nicaragua
.86 Costa Rica

.9 West Indies

.91 Cuba
.92 Jamaica
.93 Santo Domingo
.94 Hayti
.95 Porto Rico
.96 Bahamas
.97 Leeward ilands
.98 Windward ilands Barbados
.99 Bermudas

973 United States

SUMMARY OF 973

.1	Discovery	—1607
.2	Colonial	1607—1775
.3	Revolution	1775—1789
.4	Constitutional	1789—1809
.5	War of 1812	1809—1845
.6	War with Mexico	1845—1861
.7	Civil war	1861—1865
.8	Later 19th century	1865—1901

See 342.73 U. S. constitutional law and history; 328.73 U. S. legislativ bodies and annals; 329 Political parties

.1 Discovery —1607

From earliest times to settlement of Jamestown

See 970.1-6 American indians; 913.7 American antiquities; 571.91 Mounds and mound bilders; 571.85 Pueblos

.11 Precolumbian

For precolumbian claims of Chinese, Norse, Welsh, etc. see .12 to .18 below

Arabs
Jews
Africans
Irish
Poles
Germans Martin Behaim
Italians

.12 Chinese

.13 Norse
- Gunnbiorn
- Eric the Red
- Leif Ericson
- Bjarni Herjulfson
- Thorwald
- Thorfinn Karlsefne

.14 Welsh
- Prince Madoc

.15 Columbus

.16 Spanish and Portuguese

Dates of voyages are added to names

Amerigo Vespucci 1497–1504
Gaspar and Miguel Cortereal 1500–02 Labrador
Juan Ponce de Leon 1513–21 Florida
Vasco Nuñez de Balbóa 1513 Pacific ocean
Hernando Cortés 1518–40 See also 972.02 History of Mexico
Fernando da Magalhaens 1518–21 Magellan straits
Francisco Pizarro 1524–41 See also 985 History of Peru
Hernando de Soto 1539–42 Mississippi river
Francisco Vasquez de Coronado 1540–42 New Mexico, Arizona, Colorado

.17 English

John and Sebastian Cabot 1497–1530
Sir John Hawkins 1562–69
Sir Francis Drake 1570–80
Sir Martin Frobisher 1576–78
Sir Humphrey Gilbert 1578–83
Sir Walter Ralegh 1578–1602
John Davis 1585–87
Bartholomew Gosnold 1602–07

973.18 French

Giovanni da Verrazano 1524
Jacques Cartier 1534–44 Canada
Jean Ribault 1562–65 Florida
René de Laudonnière 1564–66 Florida
Samuel de Champlain 1603–35 See also 971 History of Canada

.19 Other nations

.2 Colonial 1607–1775

See also histories of separate colonies

.21 Virginia settlement 1607–20

Settlement of Jamestown 13 May 1607 See 975.5 Virginia history
Hudson's voyage 1609 See also 974.7 N. Y. history

James 1 1603–25

.22 New England settlement 1620–43

Settlement of Plymouth 21 Dec. 1620 See 974.4 Mass. history
Pequot war 1636–37 Connecticut

Charles 1 1625–49

.23 New England confederacy 1643–64

United colonies of New England 19 May 1643

Commonwelth 1649–53
Oliver Cromwell 1653–58
Richard Cromwell 1658–59

.24 Conquest of New Netherlands 1664–89

King Philip's war 1675–76 Massachusetts
War with eastern indians 1675–78 Maine
Sir Edmund Andros, governor of New England 1686–89

Charles 2 1660–85
James 2 1685–88

.25 Early French wars 1689–1732

Witchcraft in New England See 133.4
King William's war 1689–97
Sometimes cald in Europe, War of the Palatinate
Queen Anne's war 1702–13
Known in Europe as War of the Spanish succession

William 3 1689–1702
Anne 1702–14
George 1 1714–27

.26 Extension of English rule 1732–63

Settlement of Georgia 1732 See 975.8 Georgia history
King George's war 1744–48
Known in Europe as War of the Austrian succession
Albany convention assembled 19 June 1754
French and indian war 1755–63
Known in Europe as Seven years war
Braddock's defeat 9 July 1755
Crown Point and Ticonderoga 1758–59
Capture of Louisburg 27 July 1758
Capture of Quebec 18 Sep. 1759; Montcalm and Wolfe
Peace of Paris 10 Feb. 1763

George 2 1727–60

.27 Last years of the colonies 1763–75

See also specially 973.311 Causes of the Revolution

Conspiracy of Pontiac 1763–64
Bouquet's expedition 1763–64
Lord Dunmore's war Ap.-Oct. 1774 Virginia

George 3 1760–1820

SUMMARY OF 973.3

.31 Political history
.32 Diplomatic history
.33 Special campains and battles
.34 General military history
.35 Naval history
.36 Celebrations
.37 Prisons, hospitals
.38 Personal narrativs
.39 Illustrativ material

.31 Political history; causes, results

For financial history see 336.73

.311 Causes 1775
1 Stamp act 1765
2 Navigation acts; mercantil policy
Burning of the Gaspé 17 June 1772
3 Boston massacre 5 Mar. 1770
4 Taxation and representation
5 Tax on tea 1767. Boston tea party 16 Dec. 1773
6 Boston port bill 1774

.312 Political history 1775–83
Continental congress See 328.73 U. S. legislativ bodies

.313 Declaration of independence 4 July 1776 See also 973.361
Mecklenburg declaration 20 May 1775

.314 Loyalists, tories See also 973.381 Treason and traitors

.315 Relations of special classes to the Revolution
Clergy and churches
Lawyers
College graduates

.316

.317 Treaty of peace 1783
Concluded at Paris 3 Sep. 1783; ratified 14 Jan. 1784

.318 Confederation 1783–89
Shay's rebellion 1786–87 Massachusetts
Cession of western territory to United States

.319

.32 Diplomatic history; relations with other nations

Divided like 940; e. g. 973.324 Relations with France; 973.326 Relations with Spain

.33 Special campains and battles

.331 Campains of 1775
1 Lexington and Concord 19 April See also 973.362
2 Bunker Hill 17 June See also 973.366
3 Siege of Boston June 1775-March 1776
4 Ticonderoga 10 May
Crown Point 12 May
5 Canadian expeditions
Montgomery
6 Arnold
7
8 Events in the south

973.332 Campaigns of 1776
1 Campaign for the Hudson
2 Battle of Long Island 27 Aug
3 British occupation of New York
4 American retreat Sep–Nov. 1776
Harlem Heights 16 Sep.
White Plains 28 Oct.
Fort Washington 16 Nov
5 Washington in the Jerseys Dec. 1776–Jan. 1777
6 Trenton 26 Dec.
Princeton 3 Jan. 1777
7
8 Events in the south
North Carolina
Fort Moultrie, Sullivan's island 28 June

.333 Campaigns of 1777
1 Events in Connecticut and Rhode island
2 Burgoyne's campaign
Ticonderoga evacuated 6 July
Hubbardton, Vt. 7 July
Bennington, Vt. 16 Aug.
3 Freeman's farm or Bemis Heights or Stillwater 19 Sep.
Bemis Heights or Saratoga 7 Oct.
Burgoyne's surrender 17 Oct.
4 Fort Stanwix or Fort Schuyler or Oriskany 2–22 Aug
5 Clinton's advance up the Hudson
Forts Clinton and Montgomery 6 Oct.
6 Howe's campaign
Brandywine 11 Sep.
Paoli 20 Sep.
7 Philadelphia taken by British 27 Sep.
Germantown 4 Oct.
Forts on the Delaware
Red Bank, or Fort Mercer 22 Oct.
Mud Island, or Fort Mifflin 10–16 Nov.
8 Events in south. Including Kentucky

.334 Campaigns of 1778
1 Washington at Valley Forge 1777–78
2 Events in middle states
Battle of Monmouth 28 June
3 Evacuation of Philadelphia June
4 Indian depredations. See also 973.343
Wyoming 1–4 July
5 Mohawk valley
Cherry valley 11 Nov.
Brant. See also 970.2 Indian biography
6 Rhode Island campaign, August. See also 973.354 Naval history
7 Events in the south
Capture of Savannah 29 Dec.
8 Events in northwest 1778–79
Clark's expedition
Vincennes, Ind. 2 Jan. and 20 Feb. 1779

973.335 Campaigns of 1779
1 Events in New England
Tryon in Connecticut July
2 Penobscot expedition Aug. and Sep.
3 Events in middle states
Minisink 19 July
4 Wayne at Stony Point 16 July
5 Paulus Hook 19 Aug.
6 Sullivan's expedition July–Sep.
7 Events in the south
Briar creek 3 Mar.
Siege of Savannah 23 Sep. and 18 Oct.
8 Events in northwest. See 973.3348
.336 Campaign of 1780
1 Southern campaigns
Waxhaws, N. C. 29 May
Ramsour Mills, N. C. 20 June
Leslie's expedition into Virginia Oct.
2 Siege of Charleston Mar.–May
3 Camden, S. C. 16 Aug.
4 Kings mountain, S. C. 7 Oct.
5 Events in middle states
Springfield, N. J. 23 June
Bull's Ferry, N. Y. 21 July
6 Northern invasion
.337 Campaigns of 1781
1 Southern campaigns
2 Events in Carolinas Jan.–Ap.
Cowpens, S. C. 17 Jan.
Guilford, N C. 15 Mar.
Hobkirks hill, S. C. 25 Ap.
3 Events in Carolinas May–Dec.
Fort Ninety-Six, S. C. May–June
Eutaw Springs, S. C. 8 Sep.
4 British in Virginia
5 Siege of Yorktown Sep.–Oct.
Surrender of Cornwallis 19 Oct.
6 Events in the north
7 Arnold in Connecticut Sep.
.338 Campaigns of 1782
.339 Events of 1783
British evacuation of New York 25 Nov. See also 973.363

973.34 **General military history**
341 English side
.342 Mercenaries; Hessians
.343 Indians
.344 American side
Part taken by special states, specially the northern states. Under the number for each state use the book numbers A1–A19 for official publications, A2 for lists of revolutionary soldiers.
1
2 New Hampshire
3 Vermont. Not then a state, admitted 1791
4 Massachusetts
5 Rhode Island
6 Connecticut
7 New York
8 Pennsylvania
9 New Jersey
.345 Southern states
1 Delaware
2 Maryland
5 Virginia
6 North Carolina
7 South Carolina
8 Georgia
.346 American auxiliaries
.347 French
.348
.349 Special topics
Conway cabal 1777–78
Mutiny of Pennsylvania line Jan. 1781
Newburg addresses 1782–83
.35 **Naval history**
.351 Events of 1775
Capture of the Margaretta June 12
.352 Events of 1776
Escape of British sloop of war Glasgow 6 Ap.
Battle of Lake Champlain 11–13 Oct.
Gen. Benedict Arnold
.353 Events of 1777
Lexington and Alert 20 Sep.
.354 Events of 1778
French fleet at Newport
.355 Events of 1779
Bon Homme Richard and the Serapis 23 Sep.
.356 Events of 1780
Trumbull and Watt 2 June
.357 Events of 1781
Alliance and British brigs Atalanta and Trepassey 28 May
.358 Privateers

973.36 **Celebrations, anniversaries, commemorations**

These should usually be clast with the special event commemorated, but some anniversaries are of such general character as to be better clast here. For Patriotic societies of the revolution see 369.13

.361 Fourth of July. See also 973.313
.362 19th of April. See also 973.3311
.363 Evacuation day, New York. See also 973.329
.364
.365 Monuments, memorials. See also 718
.366 Bunker Hill monument. See also 973.3312
.367 Washington's various headquarters
Newburg, N. Y.
Morristown, N. J.

.37 **Prisons, hospitals, etc.**
.371 English prisons
1 Jersey prison ship
2 Sugar house prison
.372 American prisons
.373 Exchange of prisoners
.374
.375 Medical dep't; surgeons, nurses, etc.
.376 Hospitals
.377
.378
.379

.38 **Personal narratives, vindications, secret-service**
.381 Treason and traitors. See also 973.314 Loyalists, tories
.382 Benedict Arnold
.383 Charles Lee
.384
.385 Secret-service, spies
American side. Nathan Hale
.386 British side. Major John Andre

.39 **Illustrative material**

These numbers should be used mainly for references. Poems, dramas etc. should usually be clast under their own numbers, 811, 812, etc. but special collections should be clast here.

.391 Poetry
.392 Drama
.393 Fiction
.394 Addresses
.395 Sermons
.396 Humor
.397 Pictures
Paintings, drawings, caricatures, engravings, photographs, sculpture
.398 Music
.399 Maps

973.4 Constitutional period 1789–1809

See 342.73 U. S. constitution; 329.1 Federal party 1789–18; 329.2 Anti-federal party 1789–92

.41 **George Washington** 30 Ap. 1789—4 Mar. 1797
Born 22 Feb. 1732; died 14 Dec. 1799
Sworn into office 30 Ap. 1789
National bank established 25 Feb. 1791. See 332.11
Vermont admitted, 14th state, 4 Mar. 1791. See 974.3
Kentucky admitted, 15th state, 1 June 1792. See 976.9
.42 Indian wars
Harmar's expedition 1790
St Clair's expedition 1791
.43 Washington's second term 4 Mar. 1793–4 Mar. 1797
Neutrality proclamation 22 Ap. 1793. See also 341.3
Whisky insurrection July–Nov. 1794
Wayne's expedition Oct. Nov. 1794, and treaty 3 Aug. 1795
Jay's treaty 28 Oct. 1795. See also 341.2
Treaty with Spain 27 Oct. 1795. See also 341.2
Tennessee admitted, 16th state, 1 June 1796. See 976.8

.44 **John Adams** 4 Mar. 1797—4 Mar. 1801
Born 31 Oct. 1735; died 4 July 1826
Alien act 25 June 1798. See 341.5
Sedition act 14 July 1798. See 323
Removal of capitol to Washington
.45 Troubles with France
Naval battles; Constellation and L'Insurgent 9 Feb. 1800

.46 **Thomas Jefferson** 4 Mar. 1801—4 Mar. 1809
Born 2 Ap. 1743; died 4 July 1826
Ohio admitted, 17th state, 19 Feb. 1803. See 977.1
Purchase of Louisiana 2 May 1803
.47 Wars with Barbary states
.48 Jefferson's second term 4 Mar. 1805–4 Mar. 1809
Aaron Burr's conspiracy 1806
See also 923.27 lives of Burr; and 343.1 Trials
Embargo act 22 Dec. 1807

.5 War of 1812 1809–45

.51 **James Madison** 4 Mar. 1809—4 Mar. 1817
Born 16 Mar. 1751; died 28 June 1836
Engagement between ships President and Little Belt 16 May 1811
Defeat of indians by Gen. Harrison at Tippecanoe 7 Nov. 1811
Louisiana admitted, 18th state, 30 Ap. 1812. See 976.3
Indiana admitted, 19th state, 11 Dec. 1816. See 977.2

973.52 War of 1812
War declared 18 June 1812. Treaty of peace 24 Dec. 1814
.521 Political history; causes, results
Hartford convention
.522 Diplomatic history
.523 Special campaigns and battles
1 Campaign in northwest
Includes all west of New York
Surrender of Detroit 16 Aug. 1812
2 Events in northwest 1813-14
3 Campaign in New York, New England and Canada
Battle of Queenstown 13 Oct. 1812
4 Events in New York and New England 1813
Capture of Fort Niagara 19 Dec.
5 Events in Canada 1813
Capture of Fort George 27 May
Battle of Thames 5 Oct.
6 Events in New York and New England 1814
Bombardment of Stonington, Conn. 9-12 Aug.
7 Events in Canada 1814
Capture of Fort Erie 3 July
Battle of Chippewa 5 July
Battle of Lundy's Lane 25 July
8 Campaign in the south
Battle of Bladensburg 24 Aug. 1814
Burning of Washington 24 Aug. 1814
Bombardment of Fort McHenry 13 Sep. 1814
9 Events in Louisiana
Battle of New Orleans 22 Dec. 1814-8 Jan. 1815
524 General military history
1 English side
2 Indian allies
3
4 American side in general
Divided like 974. Under the number for each state use the book numbers A1-A19 for official publications, A2 for lists of soldiers.
5 South Atlantic states
Divided like 975
6 Gulf states
Divided like 976
7 Lake states
Divided like 977

973.525 Naval history
1 Events of 1812
Constitution and Guerrière 19 Aug.
Wasp and Frolic 18 Oct.
United States and Macedonia 25 Oct.
Constitution and Java 29 Dec.
2 Events on inland waters
3 Events of 1813
Hornet and Peacock 24 Feb.
Chesapeake and Shannon 1 June
Pelican and Argus 14 Aug.
Enterprise and Boxer 5 Sep.
4 Events on inland waters
Battle of Lake Erie 10 Sep.
5 Events of 1814
Essex against Phoebe and Cherub 23 Mar.
Peacock and Epervier 29 Ap.
Wasp and Reindeer 28 June
Wasp and Avon 1 Sep.
Wasp and Atlanta 21 Sep.
6 Events on inland waters
Battle on Lake Champlain 11 Sep.
7 Events of 1815
Capture of frigate President 15 Jan.
Capture of Cyane and Levant by the Constitution 20 Feb.
Hornet and Penguin 23 Mar.
8 Privateers
.526 War meetings, celebrations, anniversaries, etc.
See note under 973.36
See 369.14 societies of the war of 1812
.527 Prisons, hospitals, etc.
1 English prisons. Dartmoor
.528 Personal narratives, vindications, secret service
.529 Illustrative material. Divided like 973.39
.53 Algerine war

.54 James Monroe **4 Mar. 1817—4 Mar. 1825**
Born 28 Ap. 1758; died 4 July 1831
Mississippi admitted, 20th state, 10 Dec. 1817. See 976.2
Illinois admitted, 21st state, 3 Dec. 1818. See 977.3
Purchase of Florida 25 Feb. 1819
Alabama admitted, 22d state, 14 Dec. 1819. See 976.1
Maine admitted, 23d state, 15 Mar. 1820. See 974.1
Missouri compromise. See 326.973 and 973.7113
Missouri admitted, 24th state, 10 Aug. 1821. See 977.8
Monroe doctrine Dec. 1823. See 327.73
Tariff act 22 May 1824. See 337
.541 Seminole war 1818

.55 John Quincy Adams **4 Mar. 1825—4 Mar. 1829**
Born 11 July 1767; died 23 Feb. 1848
Erie canal completed 1825. See 386
Panama congress 1826. See 341.1
Removal of Creek indians. 1825-29. See 970.3
Tariff act 19 May 1828. See 337

973.56 **Andrew Jackson** 4 Mar. 1829—4 Mar. 1837
Born 15 Mar. 1767; died 8 June 1845
Rotation in office. See 351.6
United States bank. See 332.11
Whig party. See 329.4
Compromise tariff act 3 Mar. 1833. See 337
Independence of Texas 2 Mar. 1836. See 976.4
Arkansas admitted, 25th state, 15 June 1836. See 976.7
Specie circular 11 July 1836. See 336.73
Michigan admitted, 26th state, 26 Jan. 1837. See 977.4
.561 Nullification. See also 342.73
Webster and Hayne debate 25-27 Jan. 1830
Nullification ordinance, South Carolina 24 Nov. 1832
.562 Black Hawk war 1832
.57 **Martin Van Buren** 4 Mar. 1837—4 Mar. 1841
Born 5 Dec. 1782; died 24 July 1862
Panic of 1837. See 332
Alton riot 7 Nov. 1837. See 326.973
Burning of Caroline 26 Dec. 1837
Northeast boundary, Aroostook war, Feb., Mar. 1839
Amistad case 1839
.571 Second Seminole war 1835-42
.58 **William Henry Harrison** 4 Mar. 1841—4 Ap. 1841
Born 9 Feb. 1773; died 4 Ap. 1841
John Tyler 4 Ap. 1841—4 Mar. 1845
Born 29 Mar. 1790; died 18 Jan. 1862
Dorr's rebellion May-June 1842. See 974.5
Ashburton treaty, northeast boundary
Texas annexation resolution 28 Feb. 1845
Florida admitted, 27th state, 3 Mar. 1845

.6 War with Mexico 1845-61

.61 **James Knox Polk** 4 Mar. 1845—4 Mar. 1849
Born 2 Nov. 1795; died 15th June 1849
Texas annexed, 28th state, 29 Dec. 1845. See 976.4
Wilmot proviso adopted by house 8 Aug. 1846 See also 973.7113
Iowa admitted, 29th state, 28 Dec. 1846. See 977.7
Wisconsin admitted, 30th state, 29 May 1848. See 977.5
Free soil party; Buffalo convention Aug. 1848. See 329.6
.611 Northwest boundary; Oregon; treaty with England 12 June 1846
.62 Mexican war. 1845-48.
War declared 13 May 1846; treaty of peace 30 May 1848
.621 Political history; causes, results
Annexation of Texas
Acquisition of California, Nevada, Utah, Arizona, etc.
.622 Diplomatic history
.623 Special campaigns and battles
1 Kearny in New Mexico
2 Fremont in California
3 Taylor's campaign
4 On the Rio Grande
Palo Alto 8 May 1846
Resaca de la Palma 9 May
Matamoras 18 May
5 In Mexico
Monterey 20-25 Sep. 1846
Buena Vista 22-23 Feb. 1847

973.623 6 Scott's campaign
7 Vera Cruz 22-29 Mar. 1847
Cerro Gordo 17-18 Ap.
8 Battles near Mexico
Contreras 19-20 Aug.
San Antonio 20 Aug.
Churubusco 20 Aug.
9 Capture of Mexico
Molino del Rey 8 Sep.
Chapultepec 12-13 Sep.
Mexico 14 Sep.
.624 General military history
.625 Naval history
.626 War meetings, celebrations, anniversaries
See note under 973.36; also 369.145 Aztec club of 1847
.627 Prisons, hospitals, etc.
.628 Personal narratives
.629 Illustrative material. See note under 973.39
.63 **Zachary Taylor** 5 Mar. 1849—9 July 1850
Born 24 Sep. 1784; died 9 July 1850
Inaugural ceremony 5 March
Compromise of 1850, Omnibus bill, introduced by Henry Clay 29 Jan. 1850. See 326.973 and 973.7113
.64 **Millard Fillmore** 9 July 1850—4 Mar. 1853
Born 7 Feb. 1800; died 7 Mar. 1874
Clayton-Bulwer treaty 4 July 1850. See 386
California admitted, 31st state, 9 Sep. 1850. See 979.4
Fugitive slave law 18 Sep. 1850. See 326.973
Popular sovereignty, or squatter sovereignty. See 342.73 and 326.973
Filibustering expeditions to Cuba 1849-51. See 972.91
.65

.66 **Franklin Pierce** 4 Mar. 1853—4 Mar. 1857
Born 23 Nov. 1804; died 8 Oct. 1869
Know-nothing party. See 329.5
Republican party. See 329.6
Com. Perry's expedition to Japan 1852-54. See 915.2 and 341.273
Gadsden treaty with Mexico for purchase of southern Arizona and New Mexico 30 June 1854
Kansas-Nebraska bill 30 May 1854. See 326.973, 978.1 and 978.2.
Ostend manifesto 18 Oct. 1854. See 972.91
Walker's filibuster expedition against Nicaragua 1855. See also 972.85
.67

.68 **James Buchanan** 4 Mar. 1857—4 Mar. 1861
Born 23 Ap. 1791; died 1 June 1868
Dred Scott decision 6 Mar. 1857. See 326.973 and 973.7113
Lecompton constitution, Kansas; proslavery 7 Nov. 1857. See 978.1
Minnesota admitted, 32d state, 11 May 1858. See 977.6
Oregon admitted, 33d state, 14 Feb. 1859. See 979.5
John Brown's raid 16-17 Oct. 1859. See 973.7116 and 326.973
Kansas admitted, 34th state, 29 Jan. 1861. See 978.1
.69

973.7 War of secession 4 Mar. 1861—15 Ap. 1865

SUMMARY of 973.7

.71 Political history
.72 Diplomatic history
.73 Special campaigns and battles
.74 General military history
.75 Naval history
.76 Celebratio s
.77 Prisons, hospitals
.78 Personal narratives
.79 Illustrative material

Abraham Lincoln 1861–1865

Born 12 Feb. 1809; died 15 Ap. 1865
1st term 4 Mar. 1861—4 Mar. 1865; 2d term 4 Mar. 1865—15 Ap. 1865

.71 **Political history; causes, results**
West Virginia admitted, 35th state, 19 June 1863. See 975.4
Nevada admitted, 36th state, 31 Oct. 1864. See 979.3

.711 Causes
1 Slavery. See also 326
2 Extension of slavery
Annexation of territory
Slavery in the territories
3 Compromises
Missouri compromise 1820. See also 973.54
Wilmot proviso 1846. See also 973.61
Compromise of 1850. See also 973.63
4 Abolition movement
Murder of Elijah P. Lovejoy 7 Nov. 1837
Assault on Charles Sumner by Preston S. Brooks. 22 May 1856
5 Fugitive slaves
Underground railway
Dred Scott case. See also 973.68
6 John Brown's raid. See also 973.68
7 States' rights
8 Tariff See also 337

.712 Efforts to preserve peace
Crittenden compromise introduced 18 Dec. 1860
Peace conference 4–27 Feb. 1861

.713 Secession of southern states
South Carolina 20 Dec. 1860
Mississippi 9 Jan. 1861
Florida 10 Jan.
Alabama 11 Jan.
Georgia 19 Jan.
Louisiana 26 Jan.
Texas 1 Feb.
Confederate states of America formed 4 Feb.
Virginia 17 Ap.
Arkansas 6 May
North Carolina 20 May
Tennessee 8 June
For constitutional conventions see subdivisions of 342; proceedings and documents of Confederate congress and of state legislatures see subdivisions of 328.

.714 Results of the civil war
Emancipation proclamation 1 Jan. 1863. See 326.8
Freedmen's bureau. See 361
For the present condition of negro, see 325.26
For negro colony in Africa, Liberia, see 325.6; history of Liberia 966.6

973.715 Relations of special classes to the civil war
Clergy and churches. Colleges, students and graduates
.716 Southern side
.717 Unionists in the south
.718 Secessionists in the north

.72 **Diplomatic history: relations with other nations**
Divided like 940; e. g. 973.722 Relations with England; 973.727 Russia
.721 Diplomatic history of confederate states
Divided like 940; e. g. 973.7214 Relations of confederate states with France

.73 **Special campains and battles**
General arrangement of topics is based on *Official records of the Union and confederate armies*, pub. by the U. S. The indexes of these volums can be used as a minute subject index for subdivisions of 973.73

.731 Campain of 1861
1 Operations in Charleston harbor, S. C. 20 Dec. 1860-14 Ap. 1861
Bombardment of Fort Sumter 12-14 April
2 Operations in other southern states (*see Official records*, v. 1)
3 Maryland, Pennsylvania, Virginia, West Virginia, 16 Ap.-31 July
Riot at Baltimore, Md. 19 April
Engagement at Big Bethel, or Bethel Church, Va. 10 June
4 Battle of Bull Run, or Manassas, Va. 21 July
5 Missouri, Arkansas, Kansas, Indian territory 10 May-19 Nov.
6 Texas, New Mexico, Arizona 11 June-1 Feb. 1862
Kentucky, Tennessee 1 July-19 Nov.
North Carolina, southeastern Virginia 1 Aug.-11 Jan. 1862
7 Maryland, northern Virginia, West Virginia 1 Aug.-17 Mar. 1862
8 Engagement at Ball's Bluff, Va. 21 Oct.
Action near Edwards Ferry, Va. 22 Oct.
9 S. Carolina, Georgia, middle and east Florida 21 Aug.-11 Ap. 1862

.732 Campain of 1862
1 West Florida, southern Alabama, southern Mississippi, Louisiana 1 Sep. 1861–12 May 1862
Capture of New Orleans, La. 18 Ap.-1 May
2 Kentucky, Tennessee, north Alabama, southwest Virginia 19 Nov. 1861-4 March 1862
Capture of Fort Henry, Tenn. 6 Feb.
Siege and capture of Fort Donelson, Tenn. 12-16 Feb.
3 Missouri, Arkansas, Kansas, Indian T. 19 Nov. 1861–10 Ap. 1862
Battle of Pea Ridge, or Elkhorn tavern, Ark. 6-8 Mar.
4 Southeastern Virginia 11 Jan.-17 Mar.
Battle of Merrimac and Monitor See 973.752
North Carolina 11 Jan.-20 Aug.
Burnside expedition
Battle of Roanoke iland, N. C. 8 Feb.
Texas, New Mexico, Arizona 1 Feb.-20 Sep.
5 Kentucky, Tennessee, north Mississippi, north Alabama, southwest Virginia 4 Mar.-10 June
Siege of Corinth, Miss. 29 Ap.-10 June
6 Battle of Pittsburg Landing, or Shiloh, Tenn. 6-7 Ap.
7 Peninsular campain, Va. 17 Mar.-2 Sep.
Siege of Yorktown, Va. 5 Ap.-4 May
Battle of Fair Oaks, or Seven Pines, Va. 31 May-1 June
Seven-days battles 25 June-1 July
8 Northern Virginia, West Virginia, Maryland 17 Mar.-2 Sep.
Battle of Cedar Run, or Cedar (Slaughter) mountain, Va. 9 Aug.
Second battle of Bull Run, or Manassas, Va. 30 Aug.
9 Missouri, Arkansas, Kansas, Indian T. Dep't of N W. 10 Ap.-20 Nov.

973.733 Campaign of 1862 *continued*

1 South Carolina, Georgia, middle and east Florida 12 Ap. 1862–11 June 1863
2 West Florida, southern Alabama, southern Mississippi, Louisiana 12 May 1862–14 May 1863
Texas, New Mexico, Arizona 20 Sep. 1862–14 May 1863
3 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 10 June-31 Oct.
4 West Tennessee, northern Mississippi 10 June-20 Jan. 1863
Battle of Corinth, Miss. 3-4 Oct.
5 North Carolina, southeastern Virginia 20 Aug. 1862–3 June 1863
6 Northern Virginia, West Virginia, Maryland, Pennsylvania 3 Sep.-14 Nov.
Battle of South Mountain, Md. 14 Sep.
Battle of Antietam, or Sharpsburg, Md. 16-17 Sep.
7 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 1 Nov.-20 Jan. 1863
Battle of Stone river, or Murfreesboro, Tenn. 31 Dec. 1862–3 Jan. 1863
8 Northern Virginia, West Virginia, Maryland, Pennsylvania 15 Nov.-25 Jan. 1863
9 Battle of Fredericksburg, Va. 11-15 Dec.

.734 Campaign of 1863

1 Missouri, Arkansas, Kansas, Indian territory, Dep't of Northwest 20 Nov. 1862–31 Dec. 1863
2 Kentucky, middle and east Tennessee, north Alabama, southwest Virginia 21 Jan.-10 Aug.
Middle Tennessee, or Tullahoma campaign 23 June-7 July
Morgan's Ohio raid 2-26 July
3 Mississippi, west Tennessee 20 Jan.-10 Aug.
4 Siege of Vicksburg, Miss. 19 May-4 July
5 Northern Virginia, West Virginia, Maryland, Pennsylvania 26 Jan.-3 June
6 Chancellorsville, Va. campaign 27 Ap.-6 May
7 West Florida, southern Alabama, southern Mississippi, Louisiana, Texas, New Mexico 14 May-31 Dec.
Siege of Port Hudson, La. 21 May-8 July
8 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania, Dep't of East 3 June-3 Aug.
9 Battle of Gettysburg, Pa. 1-3 July

973.735 Campaign of 1863, *continued*

1 South Carolina, Georgia, middle and east Florida 12 June-31 Dec.
Operations on Morris island, S. C. 10 July-7 Sep.
Occupation of Battery Wagner, S. C. 6-7 Sep.
Bombardment of Fort Sumter, S. C. 17 Aug.-31 Dec.
Bombardment of Charleston, S. C. 21 Aug.-31 Dec.
3 North Carolina, Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.-31 Dec.
Bristoe, Va. campaign 9-22 Oct.
Mine Run, Va. campaign 26 Nov.-2 Dec.
4 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 11 Aug.-19 Oct.
5 Chickamauga, Ga. campaign 16 Aug.-22 Sep.
Battle of Chickamauga, Ga. 19-20 Sep.
6 East Tennessee campaign 16 Aug.-19 Oct.
7 Kentucky, southwest Virginia, Tennessee, Mississippi, north Alabama, north Georgia 20 Oct.-31 Dec.
8 Knoxville, Tenn. campaign 4 Nov.-23 Dec.
Siege of Knoxville, Tenn. 17 Nov.-4 Dec.
9 Chattanooga-Ringgold campaign 23-27 Nov.
Battle of Lookout mountain, Tenn. 24 Nov.
Battle of Missionary ridge, Tenn. 25 Nov.

.736 Campaign of 1864

1 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 1 Jan.-30 Ap.
Meridian, Miss. expedition 3 Feb.-6 Mar.
Forrest's expedition into west Tennessee and Kentucky 16 Mar.-14 Ap.
Capture of Fort Pillow, Tenn. 12 Ap.
2 N. Carolina, Virginia, W. Va. Maryland, Pennsylvania 1 Jan.-30 Ap.
Expedition against New Berne, N. C. 28 Jan.-10 Feb.
Engagement at Morton's Ford, Va. 6-7 Feb.
Kilpatrick's expedition against Richmond, Va. 28 Feb.-4 Mar.
3 Louisiana, trans-Mississippi 1 Jan.-30 June
Red river, La. campaign 10 Mar.-22 May
Camden, Ark. expedition 23 Mar.-3 May
4 South Carolina, Florida, Georgia coast 1 Jan.-13 Nov
Charleston, S. C. harbor and vicinity
Florida expedition 5-22 Feb.
Engagement at Olustee or Ocean Pond, Fla. 20 Feb.
5 Southeastern Virginia, North Carolina 1 May-12 June
Engagement at Proctor's Creek and Drewry's Bluff or Fort Darling, Va. 12-16 May
Operations on the Bermuda Hundred, Va. front 17 May-2 June
Engagement at Petersburg, Va. 9 June
6 Battle of the Wilderness, Va. 5-7 May
7 Operations about Spottsylvania Court-House, Va. 8-21 May
8 Operations at and about Cold Harbor, Va. 31 May-12 June
9 Northern Virginia, West Virginia, Maryland, Pennsylvania 1 May-3 Aug.
Engagement at New Market, Va. 15 May
Lynchburg, Va. campaign 26 May-29 June
Battle of the Monocacy, Md. 9 July
Action near Fort Stevens, D. C. 12 July

973.737 Campaign of 1864, *continued*

1 Northern Georgia 1 May-8 Sep.
Atlanta, Ga. campaign
Battle of Atlanta, Ga. 22 July

2 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama north Georgia 1 May-13 Nov.
Engagement at Harrisburg, near Tupelo, Miss. 14-15 July
Operations in Mobile bay, Ala. 2-23 Aug.
Engagement at Allatoona, Ga. 5 Oct.

3 Southeastern Virginia, North Carolina 13 June-31 July
Richmond, Va. campaign
Assaults on the Petersburg lines 15-18 June
Explosion of the mine and assault on the crater 30 July

4 Louisiana, trans-Mississippi 1 July-31 Dec.
Price's Missouri expedition 29 Aug.-2 Dec.

5 Southeastern Virginia, North Carolina 1 Aug.-31 Dec.
Richmond, Va. campaign
Expedition to Fort Fisher, N. C. 7-27 Dec.

6 Northern Virginia, West Virginia, Maryland, Pennsylvania 4 Aug.-31 Dec.

7 Shenandoah valley campaign, Va. 7 Aug.-28 Nov.
Battle of Winchester, or the Opequon, Va. 19 Sep.
Battle of Cedar creek, Va. 19 Oct.

8 South Carolina, Georgia, Florida 14 Nov.-31 Dec.
Savannah, Ga. campaign, or Sherman's march to the sea 15 Nov.-21 Dec.

9 Kentucky, southwest Virginia, Tennessee, Mississippi, Alabama, north Georgia 14 Nov.-23 Jan. 1865
Battle of Franklin, Tenn. 30 Nov.
Battle of Nashville, Tenn. 15-16 Dec.

.738 Campaign of 1865

1 Northern and southeastern Virginia, North Carolina, West Virginia, Maryland, Pennsylvania 1 Jan.-30 June

2 Richmond, Va. campaign 1 Jan.-3 Ap.

3 Expedition to and capture of Fort Fisher, N. C. 3-17 Jan.

4 Appomattox, Va. campaign 29 Mar.-9 Ap.
Battle of Five Forks, Va. 1 Ap.
Surrender of Gen. Lee 9 Ap.

5 North Carolina, South Carolina, southern Georgia, east Florida 1 Jan.-30 June
Campaign of the Carolinas 1 Jan.-26 Ap

6 Louisiana, trans-Mississippi 1 Jan.-30 June

7 Kentucky, southwestern Virginia, Tennessee, northern and central Georgia, Mississippi, Alabama, west Florida 1 Jan.-30 June
Wilson's raid from Chickasaw to Selma, Ala. and Macon, Ga. 22 Mar.-24 Ap.

8 Mobile, Ala. campaign 17 Mar.-4 May

9 Pacific coast 1 Jan. 1861-30 June 1865

973.74 General military history

.741 Northern side

1 Regular army
2 Volunteers, quotas
3 Bounties
4 Drafts
5 Negro troops
6 Special armies or corps
Army of the Cumberland
Army of the Potomac
2d army corps
19th army corps etc.
7 Special branches or services
Cavalry
Artillery
Engineers
Signal service
Guerrillas
Commissariat
8 General orders
9 Regimental losses

742 Southern side
Guerrillas

.743 Foreign elements
Divided like 940

.744-.749 Separate states and regimental histories
Divided like 974-979; 973.7444, Massachusetts; 973.7447, New York. Under each state arrange books by the following book numbers.

A for official publications
A 1 Adjutant-general's reports
A 2 Lists of soldiers
B-D, General works on the part taken by the state in the conflict
E Histories of cavalry regiments
F Heavy artillery
G Light artillery
J-L Infantry
J regiments 1-99
K regiments 100-199
L regiments 200-299
The individual regiment is marked by adding its number after the letter; E15, 15th regiment of cavalry; K49, 149th regiment of infantry. When there are more than 9 regiments 0 must be prefixed to the number for the 1st 10 regiments, J09 9th regiment of infantry.
For the border states which also had regiments on the confederate side use similarly P-S.
P Cavalry
Q Heavy artillery
R Light artillery
S Infantry
For those states which passed ordinances of secession (see list under 973.713) reverse these numbers using E-L for confederate regiments and P-S for Union regiments.
Special numbers must be arranged for unnumbered and peculiarly numbered regiments and companies.

973.75 **Naval history**

During the civil war the navy was mainly used as an auxiliary to the army and nearly all naval actions are also described in connection with special campaigns and battles 973.73 and its subdivisions.

.751 Events of 1861

Hatteras inlet, N. C. 28 Aug. See also 973.7316

Port Royal, S. C. 7 Nov. See also 973.7319

Belmont, Mo. 7 Nov. See also 973.7315

Trent affair 8 Nov. See also 973.722

.752 Events of 1862

Fort Henry, Tenn. 6 Feb. See also 973.7322

Roanoke island, N. C. 7-8 Feb. See also 973.7324

Fort Donelson, Tenn. 14 Feb. See also 973.7322

Monitor and Merrimac 8-9 Mar.

Island no. 10, Ky. 16 Mar.-8 Ap. See also 973.7325

New Orleans, La. 18 Ap.-1 May. See also 973.7321

Memphis, Tenn. 6 June. See also 973.7325

.753 Events of 1863

Charleston, S. C. 7 Ap. See also 973.7331

Vicksburg, Miss. 16 Ap. See also 973.7343

Grand Gulf, Miss. 29 Ap. See also 973.7343

.754 Events of 1864

Red river, La. expedition 10 Mar.-22 May. See also 973.7363

Sassacus and Albemarle, Albemarle sound, N. C. 5 May See also 973.7365

Alabama and Kearsarge, off Cherbourg, France 19 June

Mobile bay, Ala. 5-22 Aug. See also 973.7372

Fort Fisher, N. C. 24 Dec. See also 973.7375

.755 Events of 1865

Fort Fisher, N. C. 14-15 Jan. See also 973.7383

.756 History of special squadrons or ships

Atlantic squadron

Gulf squadron

.757 Confederate navy

Including the history of special squadrons or ships.

Alabama

Shenandoah

Florida

.758 Blockade and blockade running

.759 Privateers

.76 **War meetings, celebrations, anniversaries, commemorations**

See note under 973.36

For patriotic societies commemorating the civil war see 369.15-17

.761 War meetings

.762

.763 Flags; presentations of flags; Battle-flag day

.764

.765 Monuments, memorials. See also 718

.766

.767 Roll of honor. List of dead. For national cemeteries, see 719

.768 Memorial day

973.77 **Prisons, hospitals, charities, etc.**

.771 Southern prisons, prison life

1 Andersonville

2 Libby prison

.772 Northern prisons

.773 Exchange of prisoners, paroles

.774

.775 Medical dep't, surgeons, nurses. For military surgery see 617.99

.776 Hospitals, hospital sketches

.777 Charities

1 U. S. sanitary commission

2 Sanitary fairs

Soldiers homes, see 362.8

Soldiers orphan asylums, see 362.7

Freedmen's bureau, see 361

Pensions, 351.5

.778 Religious life, chaplains, revivals

1 U. S. Christian commission. See also 267.11

.78 **Personal narratives, vindication, secret service**

Personal narratives when relating to some special battle or event should be clast according to their subject

.781 Personal narratives, northern side

Including volumes of G. A. R. papers and Loyal legion

.782 Personal narratives, southern side

.783 Army life

.784 Southern army life, southern home life

.785 Secret service, spies

.786 Southern side

.79 **Illustrative material**

See note under 973.39

.791 Poetry

.792 Drama

.793 Fiction

.794 Addresses

.795 Sermons

.796 Humor

.797 Pictures

.798 Music

.799 Maps

.8 **Later 19th century** 1865-1901

Period of reconstruction and civil service reform

.81 **Andrew Johnson** 15 Ap. 1865—4 Mar. 1869

Born 29 Dec. 1808; died 31 July 1875

13th amendment abolishing slavery, adopted 18 Dec. 1865

See 326.8 and 342.739

Fenian invasion of Canada 31 May-2 June 1866. See 971

Nebraska admitted, 37th state, 1 Mar. 1867. See 978.2

Cession of Alaska by Russia 20 June 1867

Impeachment of Pres. Johnson Mar.-May 1868. See 351.99

14th amendment guaranteeing citizenship, adopted 28 July 1868

See 342.739

973.82 **Ulysses Simpson Grant** **4 Mar. 1869—4 Mar. 1877**
Born 27 Ap. 1822; died 23 July 1885
Treaty for annexation of Santo Domingo, signed 29 Nov. 1869; rejected by senate 30 June 1870. See 972.93
15th amendment guaranteeing suffrage, adopted 30 Mar. 1870
See 324.1 and 342.739
First provision for civil service reform 3 Mar. 1871. See 351.6
Geneva arbitration award 14 Sep. 1872. See 341.6; 973.722; 973.757
Northwestern or San Juan boundary decision, Emperor William I of Germany, arbitrator, 23 Oct. 1872
Credit Mobilier investigation Dec. 1872-Feb. 1873
Coinage act 12 Feb. 1873. See 332.47
Modoc war, California, Nov. 1872-June 1873
Financial panic 19-30 Sep. 1873. See 332
Virginius incident Oct.-Dec. 1873
Whisky ring 1872-75. See 336.73
Civil rights act 1 Mar. 1875
Colorado admitted, 38th state, 1 Aug. 1876. See 978.8
Centennial exposition, Philadelphia, 10 May-10 Nov. 1876. See 606
Electoral commission, Feb. 1877

.83 **Rutherford Birchard Hayes** **4 Mar. 1877—4 Mar. 1881**
Born 4 Oct. 1822; died 17 Jan. 1893
Halifax fishery award 23 Nov. 1877
Bland silver act 28 Feb. 1878. See 332.47
Resumption of specie payment 1 Jan. 1879. See 332.5 and 336.73

.84 **James Abram Garfield** **4 Mar. 1881—19 Sep. 1881**
Born 19 Nov. 1831; died 19 Sep. 1881

Chester Alan Arthur **19 Sep. 1881—4 Mar. 1885**
Born 5 Oct. 1830; died 18 Nov. 1886
International cotton exposition 5 Oct.-31 Dec. 1881. See 606
Edmund act to suppress polygamy 22 Mar. 1882. See 298
Pendleton civil service reform act 11 Jan. 1883. See 351.6

.85 **Grover Cleveland** **4 Mar. 1885—4 Mar. 1889**
Born 18 Mar. 1839
Act regulating the presidential succession 19 Jan. 1886. See 353.03
Mexican war pension act 29 Jan. 1887. See 351.5
Act creating Inter-state commerce commission 4 Feb. 1887. See 385
Dependent pension bill vetoed 11 Feb. 1887. See 351.5
Centennial anniversary of Constitution, Philadelphia, Pa. 15-17 Sep. 1887
Act to establish the Dep't of labor 13 June 1888. See 331
Fisheries treaty, signed 15 Feb. 1888; rejected by senate 21 Aug. 1888. See 333.9 and 341.273
Act to make Dep't of agriculture an executive dep't 9 Feb. 1889
See 630.6 and 353.8

973.86 **Benjamin Harrison** **4 Mar. 1889—4 Mar. 1893**
Born 20 Aug. 1833
Opening of Oklahoma 2 Ap. 1889. See 976.6
North Dakota admitted, 39th state, 2 Nov. 1889. See 978.4
South Dakota admitted, 40th state, 2 Nov. 1889. See 978.3
Montana admitted, 41st state, 8 Nov. 1889. See 978.6
Washington admitted, 42d state, 11 Nov. 1889. See 979.7
International American conference 2 Oct. 1889-19 Ap. 1890
See 341.1
Idaho admitted, 43d state, 3 July 1890. See 979.6
Wyoming admitted, 44th state, 10 July 1890. See 978.7
Sherman silver act, repealing silver act of 1878, 14 July 1890.
See 332.47
McKinley tariff act 1 Oct. 1890. See 337.3
Controversy with Chile Oct. 1891–July 1892. See 983
Geary Chinese exclusion act 5 May 1892. See 325.251
Bering sea arbitration treaty 23 Aug. 1892
Hawaiian annexation treaty sent to senate 15 Feb. 1893; withdrawn 9 Mar. 1893. See 996.9

.87 **Grover Cleveland, second term** **4 Mar. 1893—4 Mar. 1897**
World's Columbian exposition, Chicago, 1 May-30 Oct. 1893. See 606
Decision of Bering sea court of arbitration 15 Aug. 1893
Voorhees silver act 1 Nov. 1893. See 332.47
Wilson tariff act 27 Aug. 1894. See 337.2
Income tax law decided unconstitutional by U. S. supreme court 8 Ap. 1895. See 336.24
U. S. commission on boundary between Venezuela and British Guiana appointed 1 Jan. 1896. See 987
Utah admitted, 45th state, 4 Jan. 1896. See 979.2

.88 **William McKinley** **4 Mar. 1897—**
Born 29 Jan. 1844
Dingley tariff act 24 July 1897
Annexation of Hawaii 7 July 1898

.89 War with Spain
War declared 21 Ap. 1898
Protocol signed 12 Aug. 1898
Treaty of peace signed at Paris 10 Dec. 1898; ratified 11 April 1899

.891 Political history; causes, results
Spanish misrule in Cuba
Destruction of battleship Maine 15 Feb. 1898

892 Diplomatic history

893 Special campaigns and battles
Siege of Santiago 22 June-17 July 1898
Battle of El Caney 1 July 1898

.894 General military history
May be subdivided like 973.74

.895 Naval history
Battle of Manila 1 May 1898
Sinking of the Merrimac 3 June 1898
Destruction of Cervera's squadron 3 July 1898

.896 War meetings, celebrations, anniversaries

.897 Prisons, hospitals, etc.

.898 Personal narratives

.899 Illustrative materials

974 North-Eastern or North Atlantic. New England.

.1	**Maine.**
.11	Aroostook.
.12	Somerset. Piscataquis.
.13	Penobscot.
.14	Washington. Hancock.
.15	Waldo. Knox. Lincoln.
.16	Kennebec.
.17	Franklin. Oxford.
.18	Androscoggin. Sagadahoc.
.19	Cumberland. York.

974.2	**New Hampshire.**
.21	Coos.
.22	*White Mts.*
.23	Grafton.
.24	Carroll. Belknap.
.25	Strafford.
.26	Rockingham.
.27	Merrimac. Sullivan.
.28	Hillsborough.
.29	Cheshire.
.3	**Vermont.**
.31	Grand Isle. Franklin. Chittenden.
.32	Orleans. Essex.
.33	Caledonia. Lemoille.
.34	Washington.
.35	Addison.
.36	Orange. Windsor.
.37	Rutland.
.38	Bennington.
.39	Windham.
.4	**Massachusetts.**
.41	Berkshire.
.42	Franklin. Hampshire. Hampden.
.43	Worcester.
.44	Middlesex.
.45	Essex.
.46	Suffolk. *Boston.*
.47	Norfolk.
.48	Plymouth. Bristol.
.49	Barnstable. Dukes. Nantucket.
.5	**Rhode Island.**
.51	Providence.
.52	*Providence city.*
.53	*Pawtucket.*
.54	Kent.
.55	Bristol.
.56	Newport.
.57	*Newport city.*
.58	*Block Island.*
.59	Washington.
.6	**Connecticut.**
.61	Litchfield.
.62	Hartford.
.63	*Hartford city.*
.64	Tolland. Windham.
.65	New London.
.66	Middlesex.
.67	New Haven.
.68	*New Haven city.*
.69	Fairfield.

974.7 **New York.**

.71 New York City.

.72 Vicinity of New York City.
1, Long Island; 2, Kings Co.; 3, *Brooklyn;* 4, Queens Co.: 45, Nassau Co.; 5, Suffolk Co.; 6, Richmond Co., Staten Island; 7, Westchester Co.; 8, Rockland Co.

.73 Southeast counties.
1, Orange, *West Point;* 2, Putnam; 3, Dutchess; 4, Ulster; 5, Sullivan; 6, Delaware; 7, Green; 8, *Catskill Mts.;* 9, Columbia.

.74 Middle east counties.
1, Rensselaer, *Troy;* 2, Albany; 3, *Albany City:* 4, Schenectady; 5, Schoharie; 6, Montgomery; 7, Fulton; 8, Saratoga; 9, Washington.

.75 Northern counties.
1, Warren, *Lake George;* 2, Hamilton; 3, Essex, *Adirondacks;* 4, Clinton, *Lake Champlain;* 5, Franklin; 6, St. Lawrence; 7, Jefferson; 8, *The Thousand Islands;* 9, Lewis.

.76 North central counties.
1, Herkimer; 2, Oneida; 3, *Utica;* 4, Madison; 5, Onondaga; 6, *Syracuse;* 7, Oswego; 8, Cayuga; 9, Seneca.

.77 South central counties.
1, Tompkins; 2, Cortland; 3, Chenango; 4, Otsego; 5, Broome; 6, *Binghamton;* 7, Tioga; 8, Chemung; 9, *Elmira.*

.78 West central counties.
1, Schuyler; 2, Yates; 3, Steuben; 4, Alleghany; 5, Livingston; 6, Ontario; 7, Wayne; 8, Monroe; 9, *Rochester.*

.79 Western counties.
1, Orleans; 2, Genesee; 3, Wyoming; 4, Cattaraugus; 5, Chautauqua; 6, Erie; 7, *Buffalo;* 8, Niagara; 9, *Niagara Falls.*

.8 **Pennsylvania.**

.81 Southeast counties. Philadelphia and Chester group.
1, Philadelphia; 2, Montgomery; 3, Chester; 4, Delaware; 5, Lancaster; 6, Berks; 7, Schuylkill; 8, Dauphin; 9, Lebanon.

.82 Eastern counties. Bucks group.
1, Bucks; 2, Northampton; 3, Wayne; 4, Pike; 5, Monroe; 6, Carbon; 7, Lehigh.

.83 Northeast counties. Northumberland group.
1, Northumberland; 2, Luzerne; 3, *Wilkes-Barré;* 4, Susquehanna; 5, Wyoming; 6, Lackawanna; 7, *Scranton;* 8, Columbia; 9, Montour.

.84 Southeast central counties. Cumberland group.
1, York; 2, Adams; 3, Cumberland; 4, Franklin; 5, Perry; 6, Mifflin; 7, Juniata; 8, Union; 9, Snyder.

.85 Northeast central counties. East Lycoming group.
1, Lycoming; 2, ; 3, Centre; 4, Clinton; 5, Potter; 6, Tioga; 7, Bradford; 8, ; 9, Sullivan.

.86 Northwest central counties. West Lycoming group.
1, Clearfield; 2, Jefferson; 3, McKean; 4, ; 5, Elk, 6, Cameron; 7, Warren; 8, Forest; 9, Clarion.

.87 Southwest central counties. Bedford group.
1, Bedford; 2, Fulton; 3, Huntingdon; 4, ; 5, Blair; 6, *Altoona;* 7, Cambria; 8, ; 9, Somerset.

.88 Southwest counties. Westmoreland group.
1, Westmoreland; 2, Washington; 3, Greene; 4, Fayette; 5, Allegheny; 6, *Pittsburg;* 7, *Allegheny City;* 8, Armstrong; 9, Indiana.

.89 Northwest counties. Alleghany group.
1, Butler; 2, Beaver; 3, Lawrence; 4, ; 5, Mercer; 6, Venango; 7, Crawford; 8, ; 9, Erie.

974.9 **New Jersey.**

.91 **East Jersey.**

.92 Northern counties.
1, Bergen; 2, ; 3, Passaic; 4, *Paterson;* 5, 6, Hudson; 7, *Jersey City;* 8, *Hoboken.*

.93 Central counties.
1, Essex; 2, *Newark;* 3, *Orange;* 4, ; 5, 6, Union; 7, *Elizabeth;* 8, *Rahway.*

.94 Southern counties.
1, Middlesex; 2, *New Brunswick;* 3, ; 4, Somerset; 5, ; 6, Monmouth; 7, ; 8, Ocean.

.95 **West Jersey.**

.96 Central counties.
1, Burlington; 2, ; 3, ; 4, 5, Mercer; 6, *Trenton;* 7, *Princeton.*

.97 Northern counties.
1, Hunterdon; 2, *Raritan;* 3, ; 4, Morris; 5, 6, Sussex; 7, ; 8, Warren.

.98 Upper southern counties.
1. Gloucester; 2, ; 3, ; 4, Atlantic; 5, 6, ; 7, Camden; 8, *Camden city.*

.99 Lower southern counties.
1, Salem; 2, *Salem city;* 3, ; 4, Cumberland; 5, *Bridgeton;* 6, ; 7, ; 8, Cape May.

975 South-Eastern or South Atlantic.

Including general works on "the South."

975.1 **Delaware**

Area 2,050 sq. mi.
Population 168,493 in 1890
3 counties

		Population	
.11	Newcastle	97 182	
.12	*Wilmington*		*61 431*
.14	Kent	32 664	
.17	Sussex	38 647	

975.2 Maryland

Area 12,210 sq. mi.
Population 1,042,390 in 1890
23 counties and Baltimore city

			Population	
.21	Eastern Maryland			
	.221	Worcester	19 747	
	.223	Somerset	24 155	
	.225	Wicomico	19 930	
	.227	Dorchester	24 843	
	.231	Caroline	19 903	
	.232	Talbot	19 736	
	.234	Queen Anne	18 461	
	.236	Kent	17 471	
	.238	Cecil	25 851	
.24	Southern Maryland			
	.241	St Mary	15 819	
	.244	Calvert	9 860	
	.247	Charles	15 191	
	.251	Prince George	26 080	
	.255	Anne Arundel	34 094	
	.256	*Annapolis*		*7 604*
.26		*Baltimore* (city)		*434 439*
.27	North Central			
	.271	Baltimore	72 909	
	.274	Harford	25 993	
	.277	Carroll	32 3:6	
	.281	Howard	16 269	
	.284	Montgomery	27 185	
	.287	Frederick	49 512	
	.288	*Frederick* (city)		*8 193*
.29	Western			
	.291	Washington	39 782	
	.292	*Hagerstown*		*10 118*
	.294	Allegany	41 571	
	.295	*Cumberland*		*12 729*
	.297	Garrett	14 213	

.3 District of Columbia

975.4 West Virginia

19 June 1863 admitted as state — Area 24,780 sq mi
Population 958,800 in 1900 — 55 counties

OUTLINE

.41	**Ohio valley**	
.411	Northern Panhandle	
.42	Little Kanawha valley	
.43	Kanawha valley	
.44	Southwestern border counties	
.441	Guyandotte valley	
.446	Tug valley	
.45	**Central plateau**	
.451	Monongahela valley	
.46	Central counties	
.464	Elk valley	
.468	Gauley valley	
.47	New River valley	
.48	**Alleghany crest**	**Mountain counties**
.481	Cheat valley	
.486	Greenbrier valley	
.49	Eastern Panhandle	Potomac valley

.41 Ohio valley

.411	Northern Panhandle	*Population in 1900*	
.412	Hancock	6 693	
.413	Brooke	7 219	
.414	Ohio	48 024	
.415	*Wheeling*		*38 878*
.416	Marshall	26 444	
.417			
.418	Wetzel	22 880	
.419	Tyler	18 252	
.42	Little Kanawha valley		
.421	Pleasants	9 345	
.422	Wood	34 452	
.423	*Parkersburg*		*11 703*
.424	Ritchie	18 901	
.425			
.426	Wirt	10 284	
.427	Gilmer	11 762	
.428			
.429	Calhoun	10 266	
.43	Kanawha valley		
.431	Jackson	22 987	
.432			
.433	Mason	24 142	
.434			
.435	Putnam	17 330	
.436	Roane	19 852	
.437	Kanawha	54 696	
.438	*Charleston*		*11 099*
.439	Boone	8 194	

West Virginia: Ohio valley

975.44	Southwestern border counties		
.441	Guyandotte valley		
.442	Cabell	29 252	
.4421	*Huntington*		*11 923*
.443	Lincoln	15 434	
.444	Logan	6 955	
.445	Wyoming	8 380	
.446	Tug valley		
.447	Wayne	23 619	
.448	Mingo	11 359	
.449	McDowell	18 747	
.45	**Central plateau**		
.451	Monongahela valley		
.452	Monongalia	19 049	
.453	*Morgantown*		
.454	Marion	32 430	
.455	Taylor	14 978	
.456	Doddridge	13 689	
.457	Harrison	27 690	
.458	*Clarksburg*		
.459	Barbour	14 198	
.46	Central counties		
.461	Lewis	16 980	
.462	Upshur	14 696	
.463			
.464	Elk valley		
.465	Webster	8 862	
.466	Braxton	18 904	
.467	Clay	8 248	
.468	Gauley valley		
.469	Nicholas	11 403	
.47	New River valley		
.471	Fayette	31 987	
.472			
.473	Raleigh	12 436	
.474	Mercer	23 923	
.475			
.476	Summers	16 265	
.477			
.478	Monroe	13 130	
.479			

West Virginia

975.48	**Alleghany crest**	**Mountain counties**
.481	Cheat valley	
.482	Preston	22 727
.483	Tucker	13 433
.484		
.485	Randolph	17 670
.486	Greenbrier valley	
.487	Pocahontas	8 572
.488	Greenbrier	20 683
.489	*White Sulphur Springs*	
.49	Eastern Panhandle	Potomac valley
.491	Pendleton	9 167
.492	Grant	7 275
.493	Hardy	8 449
.494	Mineral	12 883
.495	Hampshire	11 806
.496	Morgan	7 294
.497	Berkeley	19 469
.498		
.499	Jefferson	15 935

.5 Virginia

.6 North Carolina

.7 South Carolina

.8 Georgia

.9 Florida

976 South Central or Gulf

.1 **Alabama**
.2 **Mississippi**
.3 **Louisiana**
.4 **Texas**
.5
.6 **Indian Territory. Oklahoma**
.7 **Arkansas**
.8 **Tennessee**
.9 **Kentucky**

977 North Central or Lake

.1 **Ohio**

19 Feb. 1 March 1803. admitted as state. Area 40,760 sq mi
Population 4,157,545 in 1900 88 counties

.11 Northwest counties

		Population in 1900	
.111	Williams	24 953	
5	Fulton	22 801	
.112	Lucas	153 559	
.113	*Toledo*		*131 822*
.114	Defiance	26 317	
.115	Henry	27 282	
.116	Wood	51 555	
.117	Paulding	27 528	
.118	Putnam	32 525	
.119	Hancock	41 993	
1	*Findlay*		*17 113*

.12 Central north counties

.121	Ottawa	22 213	
4	Sandusky	34 311	
.122	Erie	37 650	
1	*Sandusky* (city)		*19 664*
.123	Lorain	54 857	
1	*Lorain* (city)		*16 028*
.124	Seneca	41 163	
1	*Tiffin*		*10 989*
.125	Huron	32 330	
.126	Wyandot	21 125	
.127	Crawford	33 915	
.128	Richland	44 289	
1	*Mansfield*		*17 640*
.129	Ashland	21 184	

Ohio

977.13 Northeast counties

.131	Cuyahoga	439 120	
.132	*Cleveland*		*381 768*
.133	Lake	21 680	
6	Geauga	14 744	
.134	Ashtabula	51 448	
1	*Ashtabula* (city)		*12 949*
.135	Medina	21 958	
.136	Summit	71 715	
1	*Akron*		*42 728*
.137	Portage	29 246	
.138	Trumbull	46 591	
.139	Mahoning	70 134	
1	*Youngstown*		*44 885*

.14 Central west counties

.141	Van Wert	30 394	
5	Mercer	28 021	
.142	Allen	47 976	
1	*Lima*		*21 723*
.143	Auglaize	31 192	
.144	Hardin	31 187	
.145	Shelby	24 625	
.146	Logan	30 420	
5	Champaign	26 642	
.147	Darke	42 532	
.148	Miami	43 105	
1	*Piqua*		*12 172*
.149	Clark	58 939	
1	*Springfield*		*38 253*

.15 Central counties

.151	Marion	28 678	
1	*Marion* (city)		*11 862*
6	Morrow	17 879	
.152	Knox	27 768	
.153	Union	22 342	
5	Delaware	26 401	
.154	Licking	47 070	
1	*Newark*		*18 157*
.155	Madison	20 590	
.156	Franklin	164 460	
.157	*Columbus*		*125 560*
.158	Fairfield	34 259	
.159	Perry	31 841	

Ohio

977.16 Central east counties

.161	Wayne	37 870	
.162	Stark	94 747	
1	*Canton*		*30 667*
3	*Massillon*		*11 944*
.163	Columbiana	68 590	
1	*East Liverpool*		*17 485*
.164	Holmes	19 511	
.165	Coshocton	29 337	
.166	Tuscarawas	53 751	
.167	Carroll	16 811	
.168	Harrison	20 486	
.169	Jefferson	44 357	
1	*Steubenville*		*14 349*

.17 Southwest counties

.171	Preble	23 713	
.172	Montgomery	130 146	
.173	*Dayton*		*85 333*
.174	Greene	31 613	
.175	Butler	56 870	
1	*Hamilton* (city)		*23 914*
.176	Warren	25,584	
5	Clinton	24 202	
.177	Hamilton	409 479	
.178	*Cincinnati*		*325 902*
.179	Clermont	31 610	
6	Brown	28 237	

.18 Central south counties

.181	Fayette	21 725	
5	Pickaway	27 016	
.182	Ross	40 940	
1	*Chillicothe*		*12 976*
.183	Hocking	24 398	
7	Vinton	15 330	
.184	Highland	30 982	
7	Pike	18 172	
.185	Jackson	34 248	
.186	Adams	26 328	
.187	Scioto	40 981	
1	*Portsmouth*		*17 870*
.188	Lawrence	39 534	
1	*Ironton*		*11 868*
.189	Gallia	27 918	

Ohio

977.19 Southeast counties

.191	Muskingum	53 185	
1	*Zanesville*		*23 538*
.192	Guernsey	34 425	
.193	Belmont	60 875	
.194	Morgan	17 905	
.195	Noble	19 466	
.196	Monroe	27 031	
.197	Athens	38 730	
1	*Marietta*		*13 348*
.198	Washington	48 245	
.199	Meigs	28 620	

.2 Indiana

1809 Indiana territory with present boundaries established
1816 Indiana admitted
Area 36,350 sq. mi.
Population 2,192,404 in 1890
92 counties

.21 Southeast counties

		Population	
.211	Dearborn	23 364	
.212	Ohio	4 955	
	Switzerland	12 514	
.213	Jefferson	24 507	
.214	Ripley	19 350	
.215	Franklin	18 366	
.216	Decatur	19 277	
.217	Jennings	14 608	
.218	Scott	7 833	
	Clark	30 259	
	Jeffersonville		*10 666*
.219	Floyd	29 458	
	New Albany		*21 059*

.22 Central south counties

.221	Harrison	20 786	
.222	Washington	18 619	
.223	Jackson	24 139	
.224	Bartholomew	23 867	
.225	Brown	10 300	
	Monroe	17 673	
.226	Lawrence	19 792	
.227	Orange	14 678	
.228	Crawford	13 941	
.229	Perry	18 240	

Indiana

977.23 Southwest counties

		Population	
.231	Spencer	22 060	
.232	Warrick	21 161	
.233	Vanderburg	57 809	
	Evansville		*50 756*
.234	Posey	21 529	
.235	Gibson	24 920	
.236	Pike	18 544	
.237	Dubois	20 253	
.238	Martin	13 973	
	Daviess	26 227	
.239	Knox	28 044	

.24 West central counties

.241	Sullivan	21 877	
.242	Greene	24 379	
.243	Owen	15 040	
.244	Clay	30 536	
.245	Vigo	50 195	
	Terre Haute		*30 217*
.246	Vermilion	13 154	
	Parke	20 296	
.247	Fountain	19 558	
.218	Montgomery	28 025	
.249	Putnam	22 335	

.25 Central counties

.251	Morgan	18 643	
	Johnson	19 561	
.252	Marion	141 156	
	Indianapolis		*105 436*
.253	Hendricks	21 498	
.254	Boone	26 572	
.255	Clinton	27 370	
	Tipton	18 157	
.256	Hamilton	26 123	
.257	Madison	36 487	
	Anderson		*10 741*
.258	Hancock	17 829	
.259	Shelby	25 454	

.26 East central counties

.261	Rush	19 034	
.262	Fayette	12 630	
	Union	7 006	
.263	Wayne	37 628	
	Richmond		*16 608*
.264	Henry	23 879	
.265	Delaware	30 131	
	Muncie		*11 345*
.266	Randolph	28 085	
.267	Jay	23 478	
.268	Blackford	10 461	
.269	Grant	31 493	

Indiana

977.27 Northeast counties

		Population	
.271	Huntington	27 644	
.272	Wells	21 514	
.273	Adams	20 181	
.274	Allen	66 680	
	Fort Wayne		*35 393*
.275	Whitley	17 768	
.276	Noble	23 359	
.277	Dekalb	24 307	
.278	Steuben	14 478	
.279	Lagrange	15 615	

.28 Central north counties

.281	Elkhart	39 201	
.282	Kosciusko	28 645	
.283	Wabash	27 126	
.284	Miami	25 823	
.285	Howard	26 186	
.286	Cass	31 152	
	Logansport		*13 328*
.287	Fulton	16 746	
.288	Marshall	23 818	
.289	St Joseph	42 457	
	South Bend		*21 819*

.29 Northwest counties

.291	Laporte	34 445	
	Michigan City		*10 776*
.292	Starke	7 339	
	Pulaski	11 233	
.293	White	15 671	
.294	Carroll	20 021	
.295	Tippecanoe	35 078	
	Lafayette		*16 243*
.296	Warren	10 955	
.297	Benton	11 903	
	Newton	8 803	
	Jasper	11 185	
.298	Porter	18 052	
.299	Lake	23 886	

977.3 Illinois

1809 Illinois territory formed
3 Dec. 1818 Illinois admitted
Area 56,650 sq. mi.
Population 3,826,351 in 1890
102 counties

			Population	
.31	Cook		1 191 922	
		Chicago		*1 099 850*
.32	Northeast counties			
	.321	Lake	24 235	
	.322	McHenry	26 114	
	.323	Kane	65 061	
		Aurora		*19 688*
		Elgin		*17 823*
	.324	Dupage	22 551	
	.325	Will	62 007	
		Joliet		*23 264*
	.326	Kendall	12 106	
		Grundy	21 024	
	.327	Lasalle	80 798	
		Streator		*11 414*
	.328	Dekalb	27 066	
	.329	Boone	12 293	
.33	Northwest counties			
	.331	Winnebago	39 938	
		Rockford		*23 584*
	.332	Ogle	28 710	
	.333	Stephenson	31 338	
		Freeport		*10 189*
	.334	Jo Daviess	25 101	
		Carroll	18 320	
	.335	Whiteside	30 854	
	.336	Lee	26 187	
	.337	Bureau	35 014	
		Putnam	4 730	
	.338	Henry	33 338	
	.339	Rock Island	41 917	
		Rock Island (city)		*13 534*
		Moline		*12 000*
		Mercer	18 545	
.34	West central counties			
	.341	Henderson	9 876	
		Warren	21 281	
	.342	McDonough	27 467	
	.343	Hancock	31 907	
	.344	Adams	61 888	
		Quincy		*31 494*
	.345	Pike	31 000	
		Scott	10 304	
	.346	Morgan	32 636	
		Jacksonville		*12 935*
		Cass	15 963	
	.347	Brown	11 951	
		Schuyler	16 013	
	.348	Fulton	43 110	
	.349	Knox	38 752	

			Population	
977.35	Central counties			
	.351	Stark	9 982	
		Marshall	13 653	
	.352	Peoria	70 378	
		Peoria (city)		*41 024*
	.353	Woodford	21 429	
	.354	Tazewell	29 556	
	.355	Mason	16 067	
		Menard	13 120	
	.356	Sangamon	61 195	
		Springfield		*24 963*
	.357	Logan	25 489	
	.358	Macon	38 083	
		Decatur		*16 841*
		Dewitt	17 011	
	.359	McLean	63 036	
		Bloomington		*20 434*
.36	East central counties			
	.361	Livingston	38 455	
	.362	Ford	17 035	
	.363	Kankakee	28 732	
	.364	Iroquois	35 167	
	.365	Vermilion	49 905	
		Danville		*11 491*
	.366	Champaign	42 159	
	.367	Piatt	17 062	
		Moultrie	14 431	
	.368	Douglas	17 669	
	.369	Edgar	26 787	
.37	Southeast counties			
	.371	Clark	21 899	
	.372	Coles	30 093	
	.373	Cumberland	15 443	
	.374	Jasper	18 188	
	.375	Crawford	17 283	
	.376	Lawrence	14 693	
	.377	Richland	15 019	
	.378	Wabash	11 866	
	.379			
		1 Edwards	9 444	
		2 Wayne	23 806	
		3 Jefferson	22 590	
		4 Marion	24 341	
		5 Clay	16 772	
		6 Effingham	19 358	
		7 Fayette	23 367	
		8 Shelby	31 191	

Illinois

977.38 Southwest counties

		Population	
.381	Christian	30 531	
.382	Montgomery	30 003	
.383	Macoupin	40 380	
.384	Greene	23 791	
.385	Calhoun	7 652	
	Jersey	14 810	
.386	Madison	51 535	
	Alton		*10 294*
.387	Bond	14 550	
	Clinton	17 411	
.388	Washington	19 262	
.389	St Clair	66 571	
	Belleville		*15 361*
	East St Louis		*15 169*

.39 Southern counties

.391	Monroe	12 948	
.392	Randolph	25 049	
.393	Perry	17 529	
.394	Franklin	17 138	
.395	Hamilton	17 800	
.396	White	25 005	
.397	Gallatin	14 935	
.398	Hardin	7 234	
.399			
	1 Pope	14 016	
	2 Saline	19 342	
	3 Williamson	22 226	
	4 Jackson	27 809	
	5 Union	21 549	
	6 Johnson	15 013	
	7 Massac	11 313	
	8 Pulaski	11 355	
	9 Alexander	16 563	
	Cairo		*10 324*

977.4 Michigan

1805 Organized as separate territory
1837 Admitted
Area 78,915 sq. mi
Population 2,093,889 in 1890
84 counties

Lower peninsula

.41 Southwest counties

		Population	
.411	Berrien	41 285	
.412	Cass	20 953	
.413	Van Buren	30 541	
.414	Allegan	38 961	
.415	Ottawa	35 358	
.416	Barry	23 783	
.417	Kalamazoo	39 273	
.418	*Kalamazoo* (city)		*17 853*
.419	St Joseph	25 356	

.42 Central south counties

.421	Branch	26 791	
.422	Calhoun	43 501	
	Battle Creek		*13 197*
.423	Eaton	32 094	
.424	Clinton	26 509	
.425	Shiawassee	30 952	
.426	Ingham	37 666	
.427	*Lansing*		*13 102*
.428	Jackson	45 031	
	Jackson (city)		*20 798*
.429	Hillsdale	30 660	

.43 Southeast counties

.431	Lenawee	48 448	
.432	Monroe	32 337	
.433	Wayne	257 114	
.434	*Detroit*		*205 876*
.435	Washtenaw	42 210	
.436	Livingston	20 858	
.437	Genesee	39 430	
.438	Oakland	41 245	
.439	Macomb	31 813	

.44 Southeast central counties

.441	St Clair	52 105	
	Port Huron		*13 543*
.442	Lapeer	29 213	
.443	Sanilac	32 589	
.444	Huron	28 545	
.445	Tuscola	32 508	
.446	Saginaw	82 273	
	Saginaw (city)		*46 322*
447	Bay	56 412	
	Bay City		*27 839*
	West Bay City		*12 981*
.448	Midland	10 657	
.449	Gratiot	28 668	

Michigan

977.45 Southwest central counties

		Population	
.451	Isabella	18 784	
.452	Mecosta	19 697	
.453	Montcalm	32 637	
.454	Ionia	32 801	
.455	Kent	109 922	
.456	*Grand Rapids*		*60 278*
.457	Muskegon	40 013	
	Muskegon(city)		*22 702*
.458	Newaygo	20 476	
.459	Oceana	15 698	

.46 Northwest central counties

.461	Mason	16 385	
.462	Manistee	24 230	
	Manistee (city)		*12 812*
.463	Benzie	5 237	
	Leelanaw	7 944	
.464	Grand Traverse	13 355	
.465	Kalkaska	5 160	
.466	Missaukee	5 048	
.467	Wexford	11 278	
.468	Lake	6 505	
.469	Osceola	15 630	

.47 Northeast central counties

.471	Clare	7 558	
.472	Gladwin	4 208	
.473	Arenac	5 683	
.474	Iosco	15 224	
.475	Ogemaw	5 583	
.476	Roscommon	2 033	
.477	Crawford	2 962	
.478	Oscoda	1 904	
.479	Alcona	5 409	

.48 Northern counties

.481	Alpena	15 581	
.482	Presque Isle	4 687	
.483	Montmorency	1 487	
.484	Otsego	4 272	
.485	Antrim	10 413	
.486	Charlevoix	9 686	
.487	Cheboygan	11 986	
.488	Emmet	8 756	
.489	Manitou	860	

Michigan

977.49 Upper peninsula

		Population	
.491	Chippewa	12 019	
.492	Mackinac	7 830	
	Luce	2 455	
.493	Alger	1 238	
	Schoolcraft	5 818	
.494	Delta	15 330	
.495	Menominee	33 639	
	Menominee (city)		*10 630*
	Dickinson	Formed after 1890	
.496	Marquette	39 521	
	Ishpeming		*11 197*
.497	Baraga	3 036	
	Iron	4 432	
.498	Gogebic	13 166	
	Ontonagon	3 756	
.499	Houghton	35 389	
	Keweenaw	2 894	
	Isle Royale	135	

.5 Wisconsin

1836 organized as territory
29 May 1848 admitted as state

Area 56,040 sq mi
Population 2,069,042 in 1900

.51 Northwest counties

		Population in 1900	
.511	Douglas	36 335	
.512	*Superior*		*31 090*
.513	Bayfield	14 392	
.514	Burnett	7 478	
.515	Washburn	5 521	
.516	Sawyer	3 593	
.517	Polk	17 801	
.518	Barron	23 677	
.519	Gates		

.52 Central north counties

.521	Ashland	20 176	
	Ashland (city)		*13 074*
.522	Iron	6 616	
.523	Vilas	4 929	
.524	Price	9 106	
.525	Oneida	8 875	
.526	Taylor	11 262	
.527	Lincoln	12 269	
.528	Clark	25 848	
.529	Marathon	43 256	
	Wausau		*12 354*

977·53	Northeast counties		
·531	Forest	1 396	
·532	Florence	3 193	
·533	Marinette	30 822	
·534	*Marinette* (city)		*16 195*
·535	Langladc	12 553	
·536	Shawano	27 475	
·537	Oconto	20 874	
·538	Waupaca	31 615	
·539	Outagamie	46 247	
	Appleton		*15 085*
·54	Central west counties		
·541	St Croix	26 830	
·542	Pierce	23 943	
·543	Dunn	25 043	
·544	Chippewa	33 037	
·545	Eau Claire	31 692	
·546	*Eau Claire* (city)		*17 517*
·547	Pepin	7 905	
·548	Buffalo	16 765	
·549	Trempealeau	23 114	
·55	Central counties		
·551	Jackson	17 466	
·552	Wood	25 865	
·553	Portage	29 483	
·554	Monroe	28 103	
·555	Juneau	20 629	
·556	Adams	9 141	
·557	Waushara	15 972	
·558	Marquette	10 509	
·559	Green Lake	15 797	
·56	Central east counties		
·561	Brown	46 359	
	Green Bay (city)		*18 684*
·562	Kewaunee	17 212	
·563	Door	17 593	
·564	Winnebago	58 225	
·565	*Oshkosh*		*28 284*
·566	Calumet	17 078	
·567	Manitowoc	42 261	
	Manitowoc (city)		*11 786*
·568	Fond du Lac	47 589	
	Fond du Lac	(city)	*15 110*
·569	Sheboygan	50 345	
	Sheboygan (city)		*22 962*
·57	Southwest counties		
·571	La Crosse	42 997	
·572	*La Crosse* (city)		*28 895*
·573	Vernon	28 351	
·574	Crawford	17 286	
·575	Richland	19 483	
·576	Sauk	33 006	
·577	Grant	38 881	
·578	Iowa	23 114	
·579	La Fayette	20 959	

977·58	Central south counties		
·581	Columbia	31 121	
·582	Dodge	46 631	
·583	Dane	69 435	
·584	*Madison*		*19 164*
·585	Jefferson	34 789	
·586	Green	22 719	
·587	Rock	51 203	
	Janesville		*13 185*
·588	*Beloit*		*10 436*
·589	Walworth	29 259	
·59	Southeast counties		
·591	Washington	23 589	
·592	Ozaukee	16 363	
·593	Waukesha	35 229	
·594	Milwaukee	330 017	
·595	*Milwaukee* (city)		*285 315*
·596	Racine	45 644	
·597	*Racine* (city)		*29 102*
·598	Kenosha	21 707	
·599	*Kenosha* (city)		*11 606*

.6 Minnesota

.7 Iowa

12 June 1838 organized as a territory
28 Dec. 1846 Admitted as state — Area 56,025 sq mi
Population 2,231,853 in 1900 — 99 counties

·71	Northwest counties	
		Population in 1900
·711	Lyon	13 165
6	Osceola	8 725
·712	Dickinson	7 995
5	Emmet	9 936
·713	Sioux	23 337
·714	O'Brien	16 985
·715	Clay	13 401
5	Palo Alto	14 354
·716	Plymouth	22 209
·717	Cherokee	16 570
·718	Buena Vista	16 975
·719	Pocahontas	15 339
·72	Central north counties	
·721	Kossuth	22 720
·722	Winnebago	12 725
·723	Worth	10 887
4	Mitchell	14 916
·724	Hancock	13 752
·725	Cerro Gordo	20 672
·726	Floyd	17 754
·727	Humboldt	12 667
4	Wright	18 227
·728	Franklin	14 996
·729	Butler	17 955

977·73	Northeast counties		
·731	Howard	14 512	
5	Chickasaw	17 037	
·732	Winneshiek	23 731	
·733	Allamakee	18 711	
·734	Bremer	16 305	
·735	Fayette	29 845	
·736	Clayton	27 750	
·737	Blackhawk	32 399	
1	*Waterloo*		*12 580*
·738	Buchanan	21 427	
5	Delaware	19 185	
·739	Dubuque	56 403	
1	*Dubuque* (city)		*36 297*
·74	Central west counties		
·741	Woodbury	54 610	
1	*Sioux City*		*33 111*
·742	Ida	12 327	
4	Sac	17 639	
·743	Calhoun	18 569	
·744	Monona	17 980	
·745	Crawford	21 685	
·746	Carroll	20 319	
6	Greene	17 820	
·747	Harrison	25 597	
·748	Shelby	17 932	
6	Audubon	13 626	
·749	Guthrie	18 729	
·75	Central counties		
·751	Webster	31 757	
1	*Fort Dodge*		*12 162*
·752	Hamilton	19 514	
·753	Hardin	22 794	
7	Grundy	13 757	
·754	Boone	28 200	
6	Story	23 159	
·755	Marshall	29 991	
1	*Marshalltown*		*11 544*
·756	Tama	24 585	
·757	Dallas	23 058	
·758	Polk	82 624	
1	*Des Moines*		*62 139*
·759	Jasper	26 976	
6	Poweshiek	19 414	

977·76	Central east counties		
·761	Benton	25 177	
·762	Linn	55 392	
1	*Cedar Rapids*		*25 656*
·763	Jones	21 954	
·764	Jackson	23 615	
·765	Iowa	19 544	
5	Johnson	24 817	
·766	Cedar	19 371	
·767	Clinton	43 832	
1	*Clinton* (city)		*22 698*
·768	Muscatine	28 242	
1	*Muscatine* (city)		*14 073*
·769	Scott	51 558	
1	*Davenport*		*35 254*
·77	Southwest counties		
·771	Pottawattamie	54 336	
1	*Council Bluffs*		*25 802*
·772	Cass	21 274	
·773	Adair	16 192	
·774	Mills	16 764	
·775	Montgomery	17 803	
·776	Adams	13 601	
·777	Fremont	18 546	
·778	Page	24 187	
·779	Taylor	18 784	
·78	Central south counties		
·781	Madison	17 710	
·782	Warren	20 376	
·783	Marion	24 159	
·784	Mahaska	34 273	
·785	Union	19 928	
6	Clarke	12 440	
·786	Lucas	16 126	
5	Monroe	17 985	
·787	Ringgold	15 325	
5	Decatur	18 115	
·788	Wayne	17 491	
·789	Appanoose	25 927	
·79	Southeast counties		
·791	Keokuk	24 979	
·792	Washington	20 718	
6	Louisa	13 516	
·793	Wapello	35 426	
1	*Ottumwa*		*18 197*
·794	Jefferson	17 437	
·795	Henry	20 022	
·796	Des Moines	35 989	
1	*Burlington*		*23 201*
·797	Davis	15 620	
·798	Van Buren	17 354	
·799	Lee	39 719	
1	*Keokuk* (city)		*14 641*

977.8 Missouri

7 Dec. 1812 organized as a territory — Area 69,415 sq mi
10 Aug. 1821 admitted as a state — Population 3,293,335 in 1910
114 counties and St Louis

.81	Northwest counties		
.811	Atchison	13 604	
5	Holt	14 539	
.812	Nodaway	28 833	
6	Andrew	15 282	
.813	Buchanan	93 020	
1	*St Joseph*		*77 403*
5	Platte	14 429	
.814	Worth	8 007	
5	Gentry	16 820	
.815	Dekalb	12 531	
5	Clinton	15 297	
.816	Clay	20 302	
.817	Harrison	20 466	
.818	Daviess	17 605	
5	Caldwell	14 605	
.819	Ray	21 451	
.82	Central north counties		
.821	Mercer	12 335	
5	Grundy	16 744	
.822	Livingston	19 453	
5	Carroll	23 098	
.823	Putnam	14 308	
5	Sullivan	18 598	
.824	Linn	25 253	
.825	Chariton	23 503	
.826	Schuyler	9 062	
4	Adair	22 700	
.827	Macon	30 868	
.828	Randolph	26 182	
1	*Moberly*		*10 923*
5	Howard	15 653	
.829	Boone	30 533	
.83	Northeast counties		
.831	Scotland	11 869	
5	Knox	12 403	
.832	Shelby	14 864	
5	Monroe	18 304	
.833	Audrain	21 687	
5	Callaway	24 400	
.834	Clark	12 811	
5	Lewis	15 514	
.835	Marion	39 572	
1	*Hannibal*		*18 341*
5	Ralls	12 913	
.836	Pike	22 556	
.837	Lincoln	17 033	
.838	Montgomery	15 604	
6	Warren	9 123	
.839	St Charles	24 695	

977.84	Central west counties		
.841	Jackson	283 522	
1	*Kansas City*		*248 381*
.842	Cass	22 973	
.843	Bates	25 869	
.844	Vernon	28 827	
.845	Lafayette	30 154	
5	Johnson	26 297	
.846	Henry	27 242	
6	St Clair	16 412	
.847	Saline	29 448	
.848	Pettis	33 913	
1	*Sedalia*		*17 822*
.849	Benton	14 881	
6	Hickory	8 741	
.85	Central counties		
.851	Cooper	20 311	
.852	Moniteau	14 375	
.853	Morgan	12 863	
.854	Camden	11 582	
.855	Cole	21 957	
1	*Jefferson City*		*11 850*
.856	Miller	16 717	
.857	Pulaski	11 438	
.858	Osage	14 283	
.859	Maries	10 088	
4	Phelps	15 796	
.86	Central east counties		
.861	Gasconade	12 847	
.862	Crawford	13 576	
.863	Franklin	29 830	
.864	Washington	13 378	
.865	St Louis	82 417	
.866	*St Louis (city)*	687 029	
.867	Jefferson	27 878	
.868	St François	35 738	
.869	Ste Genevieve	10 607	
4	Perry	14 898	
.87	Southwest counties		
.871	Barton	16 747	
.872	Jasper	89 673	
1	*Joplin*		*32 073*
2	*Webb City*		*11 817*
.873	Newton	27 136	
6	McDonald	13 539	
.874	Cedar	16 080	
5	Dade	15 613	
.875	Lawrence	26 583	
.876	Barry	23 869	
.877	Polk	21 561	

Missouri

977.878	Greene	63 831	
1	*Springfield*		*35 201*
.879	Christian	15 832	
4	Stone	11 559	
7	Taney	9 134	
.88	Central south counties		
.881	Dallas	13 181	
5	Laclede	17 363	
.882	Webster	17 377	
5	Wright	18 315	
.883	Douglas	16 664	
5	Ozark	11 926	
.884	Texas	21 458	
.885	Howell	21 065	
.886	Dent	13 245	
.887	Shannon	11 443	
5	Oregon	14 681	
.888	Iron	8 563	
5	Reynolds	9 592	
.889	Carter	5 504	
4	Ripley	13 099	
.89	Southeast counties		
.891	Madison	11 273	
.892	Wayne	15 181	
.893	Butler	20 624	
.894	Bollinger	14 576	
.895	Stoddard	27 807	
.896	Cape Girardeau	27 621	
.897	Scott	22 372	
.898	Mississippi	14 557	
5	New Madrid	19 488	
.899	Dunklin	30 328	
6	Pemiscot	19 559	

977.9

978 Western or Mountain.

Including general works on "the West."

- .1 **Kansas.**
- .2 **Nebraska.**
- .3 **South Dakota.** Including works on Dakota as a whole.
- .4 **North Dakota.**
- .5
- .6 **Montana.**
- .7 **Wyoming.**
- .8 **Colorado.**
- .9 **New Mexico.**

979 Pacific.

- .1 **Arizona.**
- .2 **Utah.**
- .3 **Nevada.**
- .4 **California.**
- .5 **Oregon.**
- .6 **Idaho.**
- .7 **Washington.**
- .8 **Alaska.**

980 **South America.**

981 Brazil.

982 Argentine Republic. Patagonia.

983 Chile.

984 Bolivia.

985 Peru.

986 U. S. of Colombia. New Granada. Ecuador.

987 Venezuela.

988 Guiana.

989 Paraguay. Uruguay.

990 **Oceanica. Polar Regions.**

991 Malaysia.

.1, Borneo; .2, Celebes; .3, Moluccas or Spice Islands; .4, Philippine Islands.

992 Sunda.

.1, Sumatra; .2, Java.

993 Australasia.

.1, New Zealand; .2, New Caledonia; .3, Loyalty Islands; .4, New Hebrides; .5, Solomon Islands; .6, New Britain, New Ireland; .7, Admiralty Islands.

994 Australia.

.1, Western Australia; .2, South Australia; .3, Queensland; .4, New South Wales; .5, Victoria; .6, Tasmania.

995 New Guinea.

996 Polynesia.

.1, Fiji, Friendly and Navigator's Islands; .2, Society, Austral and Cook's Islands; .3, Marquesas Islands and Low Archipelago; .4, Minor Polynesian Islands; .5, Micronesia; .6, Caroline and Pelew Islands; .7, Ladrone Islands; .8, Marshall and Gilbert Islands; .9, Hawaii.

997 Isolated Islands.

998 Arctic Regions.

999 Antarctic Regions.

RELATIV SUBJECT INDEX

INDEX ABBREVIATIONS

Cutter forename abbreviations Most common forenames of men are denoted by initial and colon; of women by initial and double period.

A.. Anna
A: Augustus
B.. Beatrice
B: Benjamin
C: Charles
C.. Charlotte
D: David
D.. Delia
E: Edward
E.. Elizabeth
F.. Fanny
F: Frederick
G: George
G.. Grace
H.. Helen
H: Henry
I: Isaac
I.. Isabella
J.. Jane
J: John
K: Karl
K.. Kate
L: Lewis
L.. Louisa
M: Mark
M.. Mary
N.. Nancy
N: Nicholas
O.. Olivia
O: Otto
P.. Pauline
P: Peter
R.. Rebecca
R: Richard
S: Samuel
S.. Sarah
T.. Theresa
T: Thomas
U: Ulrich
U.. Ursula
V: Victor
V.. Victoria
W.. Wilhelmina
W: William
Z.. Zenobia

Other abbreviations exclusiv of common geografic abbreviations and others selfexplanatory; e. g. those made by omitting final -ment, -ogy, -rafy, -tion, -ture, obscure syllables, etc.

adj.	adjutant	elec.	electric -ity	nat.	natural, nature
anal.	analysis	eng.	engineering	nonchr.	nonchristian
anat.	anatomy	eth.	ethical, ethics	ord.	order, orders
anc.	ancient	exped.	expedition	ordn.	ordnance
antiq.	antiquities	fest.	festival	org.	organ -ic
arch.	archeology	fic. *or*	fiction	orig.	origin -al
	architecture	fict.		phil.	philosofer -y
ass'n	association	gard.	gardening	philol.	philology
astr.	astronomy	gen.	general	phot.	photografic -y
bibliog.	bibliografic	geod.	geodesy	phys..	physical
biog.	biografy	geog.	geografic		physiologic -y
bldg	bilding	geol.	geology	poet.	poetry
bus.	business	geom.	geometry	pol. *or*	political *or*
ch.	church	gov. *or*	government	polit.	politics
chem.	chemic	gov't		prac.	practical
	chemistry	histol.	histology	pres.	presidency
chr.	christian	hist.	historic -y		president
civ.	civil	hum.	humor	prob.	probabilities
co.	county	hyg.	hygiene	prot.	protection
cont.	contagious	instr.	instrument	psych.	psychologic -y
cost.	costume	lang.	language	pub.	public
crim.	criminal	lib.	library -ian	reg.	region
Dan.	Danish	lig.	ligament	relig.	religion, -ous
dec.	decoration	lit.	literature	rit.	ritual
descr.	description	loc.	local -ity	sat.	satire
	descriptiv	mach.	machine -ry	sci.	science, -tific
diff.	different	manuf.	manufactures	serm.	sermons
dis.	diseases	mech.	mechanic	soc.	social, society
discov.	discovery	ment.	mental	stat.	statutes
doc.	doctrin -al	meth.	methods	subj.	subject
dom.	domestic	mfg	manufacturing	tech.	technology
dram.	drama	mil.	military	theol.	theologic -y
dwel.	dwelling	min.	mineral	theor.	theoretic
eccles.	ecclesiastic		mining	therap.	therapeutics
	ecclesiology	misc.	miscellany	wks	works
econ.	economic -y	mon.	monastic		

HOW TO USE THIS INDEX

Find the subject desired in its alphabetical place in the index. The number after it is its class number and refers to the place where the topic will be found, in numerical order of class numbers, on the shelves or in the subject catalogs. All class numbers are decimals; i. e., 571.34, Bronze remains, comes before 571.4, Iron age, and both of them before 572, Ethnology. Printed labels on the shelves or drawer fronts guide readily to the class number sought.

Under this class number will be found the resources of the library on the subject desired. Other subjects near the one sought may often be consulted with profit; e. g., Communism is the topic wanted and the index refers to 335.4, but 335, Socialism, and even the inclusive division 330, Political economy, also contain much on this subject. The reverse is equally true; the full material on Socialism can only be had by looking at its divisions 335.3, Fourierism, 335.4, Communism, etc. The topics which are thus subdivided are plainly marked in the index by heavy faced type.

THIS INDEX CONTAINS

in a single alphabet all the subjects named in the Complete Tables of the Decimal Classification together with their synonyms and such other useful topics as could be found in a selection of the largest dictionary and subject catalogs.

Where nothing is found under any number it shows that the library does not yet possess any book on that topic.

IT DOES NOT INCLUDE

all names of places, minerals, plants, etc., but gives only those used in the full tables and a farther selection of the most common and useful. It is not a biographical dictionary and gives **no names of persons** as biographical headings, but only such as appear in the tables in connection with some subject like Philosophy, Literature, or History.

To avoid swelling the index by frequent repetitions of long lists of sub-divisions under every country, language, etc., five general tables have been prepared; viz. 1, Geographical divisions; 2, Form divisions; 3, Languages; 4, Philological divisions; 5, Literatures. These are placed at the end and referred to from all such topics in the index. Explanations precede each index table.

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[1] Mo. " 977.8825
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INDEX TABLES.

Table 1. — Geographical Divisions.

The following subjects may all be divided geographically by adding the geographical numbers: i. e., 4, Europe; 5, Asia; 6, Africa; 7, North America; 8, South America; 9, Oceanica. These can be farther subdivided as minutely as wished, like the history, 940–999, which see for full table; e. g.: 42, England; 73, United States; 944, New South Wales; 7471, New York City, etc.

The geographical numbers are formed by omitting initial 9 from the historical numbers given in tables 930–999, and these figures are simply affixed to the number given in the table below; e. g.: Atlases are numbered in the table below 912; in the historical tables France is numbered 944; omitting initial 9 and affixing the remaining figures, 44, to 912 gives 912.44, Atlases of France; New South Wales is 994.4; omit initial 9 and affix the 944 to 912 and the result is 912.944, Atlases of New South Wales. In the table below, Mints are 332.49; in the historical tables England is 942; adding these together (omitting the 9) gives 332.4942, Mints in England. Colleges are 378; N. Y. State, 974.7; add these together (omitting the 9) and the result is 378.747, Colleges in N. Y. State.

A number of unimportant topics, e. g. minor religious sects, which may be divided geographically, are omitted from this table.

373.	Academies, private.
379.	" public.
354.	Administration (except U. S.).
923.5	" biography.
923.5	Admirals' lives.
283.	American P. E. church.
922.3	" " " biography.
911.	Ancient geography.
283.	Anglican church.
922.3	" " biography.
591.9	Animals, geographical distribution.
328.	Annals, legislative.
913.	Antiquities, archæology.
922.3	Archbishops' lives, Anglican.
922.2	" " Roman catholic.
720.9	Architecture, history of.
923.5	Army biography.
709.	Art, history of.
362.9	Asylums.
027.2	Atheneum libraries.
912.	Atlases.
923.3	Bankers' lives.
286.1	Baptist, Calvinistic.
286.2	" Free will.
286.3	" Seventh day.
922.6	" lives.
016.9	Bibliography of history.
015.	" special countries.
920.0	Biography of countries, collective; also religious biography 922.2 to 922.8, and biography of sociology 923.1 to 923.8.
922.3	Bishops' lives, Anglican and P. E.
922.2	" " Roman catholic.
655.4	Bookselling, history of.
581.9	Botany, geographical.
284.2	Calvinist church.
922.4	" lives.
923.3	Capitalists' lives.
922.2	Cardinals' "
282.	Catholic church.
922.2	" " biography.
284.8	" Old, church.
361.9	Charitable associations.
283.	Church, Episcopal.
922.3	" " biography.
27	" history.
027.3	Circulating libraries.
027.4	City libraries, public.
923.5	Civil service biography.
027.2	Club libraries.
367.9	Clubs, social.
332.49	Coinage, history of.
027.7	College libraries.
378.	Colleges.
325.	Colonies.
923.8	Commerce, biography of.
285.8	Congregational church.
922.5	" " biography.
342.	Constitutional law.
922.4	Continental Protestants' lives.
655.6	Copyright.
343.	Criminal law.
923.4	Criminals' lives.
614.12	Deaths and death-rates.
91	Description, geographical.
91	Directories.
591.9	Distribution of animals, geog.
549.9	" " minerals "
581.9	" " plants "
572.9	" " races "
284.1	Dutch reformed church (except America).
285.7	Dutch reformed church (in America).
922.4	Dutch reformed church biography.
27	Ecclesiastical history.
378.	Education, college.
372.9	" elementary.
370.9	" history of.

373.	Education, intermediate (private).
376.9	" of woman.
373.	" private academies.
379.	" public school.
923.7	Educators' lives.
372.9	Elementary education.
325.1	Emigrants.
923.1	Emperors' lives.
027.4	Endowed libraries.
373.	" schools.
628.09	Engineering, sanitary.
283.	Episcopal church.
922.3	" " biography.
287.6	" Methodist, church.
922.7	" " " biog.
572.9	Ethnology.
027.1	Family libraries.
376.9	Female education.
336.	Finance.
923.3	Financiers' lives.
349.	Foreign law.
327.	" relations.
354.	" states, administration.
560.9	Fossils, geographical distribution.
027.9	Free news rooms.
027.4	" public libraries.
289.6	Friends or quakers.
922.8	" " " biography.
027.0	General libraries, hist., reports, etc.
581.9	Geographical botany.
591.9	" dist. of animals.
560.9	" " " fossils.
549.9	" " " minerals.
572.9	" " " races.
91	Geography, description.
911.	" historical.
912.	" maps.
55	Geology.
724.3	Gothic revival, architecture.
724.4	" Victorian, "
354.	Government admin. (except U. S.).
027.5	" libraries.
352.0	" local.
923.2	Governors' lives.
724.2	Grecian revival, architecture.
614.09	Health, public.
911.	Historical geography.
016.9	History, bibliography of.
362.9	Hospitals.
284.5	Huguenots.
922.4	" biography.
613.09	Hygiene.
325.	Immigration.
338.9	Industrial legislation.
607.	Institutes of technology.
368.9	Insurance.
373.	Intermediate education.
923.4	Judges' lives.
923.1	Kings' lives.
923.4	Law biography.
342.	" constitutional.
343.	" criminal.
349.	" foreign.
338.9	Legislation, industrial.
328.	Legislative bodies and annals.
923.2	Legislators' lives.
027.0	Libraries, general, histories, rep., etc.
352.0	Local government.
284.1	Lutheran church.
922.4	" " biography.
912.	Maps.
923.8	Merchants' lives.
287.6	Methodist episcopal.
922.7	" biography.
553.70	Mineral waters.
549.9	Minerals, geographical distribution.
332.49	Mints, history.
780.9	Music, history of.
015.	National bibliography.
920.0	" biography.
923.5	Naval "
724.6	Néo-Grec architecture.
027.9	News rooms, free.
923.2	Nobles' lives.
560.9	Paleontology.
027.8	Parish libraries.
328.	Parliamentary bodies.
329.9	Parties, political (except U. S.).
923.6	Philanthropists' lives.
912.	Plans of cities, etc.
581.9	Plants, geographical distribution.
363.9	Political associations.
923.3	" economy, biography.
329.9	" parties (except U. S.).
923.2	" science, biography.
320.9	" " history of.
923.2	Politicians' lives.
312.	Population, statistics of.
373.	Preparatory schools.
285.1	Presbyterian church in America.
285.2	" " " Gr. Britain.
922.5	" " biography.
923.1	Presidents' lives.
655.1	Printing, history of.
365.9	Prisons.
027.1	Private libraries.
373.	" schools.
027.2	Proprietary libraries.
283.	Protestant Episcopal church.
922.3	" " " biog.
922.4	Protestants, Continental, lives.
614.09	Public health.
027.4	Public libraries.
379.	" school system.
015.	Publishers' lists.
655.4	Publishing, history of.
289.6	Quakers.
922.8	" lives.
724.5	Queen Anne architecture.
923.1	Queens' lives.
572.9	Races of men.
923.8	Railroad officials' lives.
027.4	Rate supported libraries.
027.9	Reading rooms, free.
364.9	Reformatory institutions.
284.1	Reformed church.
285.7	" (Dutch) church in Amer.
922.4	" " " biography.
327.	Relations, foreign.
27	Religious history.
724.1	Renaissance architecture.
282.	Roman Catholic church.
922.2	" " " biography.
724.8	Romanesque revival, architecture.
923.1	Rulers, Chief, lives.
628.09	Sanitary engineering, history, etc.
284.7	Scandinavian church.
922.4	" " biography.
027.8	School libraries.
923.7	" officers' biography.
373.	Schools, private.
379.	" public, system.
508.	Scientific travels.
366.9	Secret societies.
373.	Seminaries, private.
923.5	Service, Civil, biography.
286.3	Seventh day baptist.
922.6	" " " biography.
289.8	Shakers.
922.8	" biography.
653.09	Shorthand, history.
326.9	Slavery, history.
367.9	Social clubs.
366.9	Societies, secret.
027.2	Society libraries.
923.5	Soldiers' lives.
379.	State education.
027.5	" libraries.
923.2	Statesmen's lives.
31	Statistics.
312	" of population.
027.3	Subscription libraries.
324.	Suffrage.
027.8	Sunday school libraries.
289.4	Swedenborgians.
922.8	" biography.
284.7	Swedish church.
922.4	" " biography.
724.7	Swiss architecture.
923.7	Teachers' lives.
607.	Technical schools.
724.7	Timber architecture.
027.4	Town libraries, public.
91	Travel, description.
508	" scientific.
341.2	Treaties, texts and history.
724.4	Tudor architecture.
288.	Unitarian church.
922.8	" biography.
289.1	Universalist church.
922.8	" " biography.
378.	Universities, history, reports, etc.
027.7	University libraries.
724.4	Victorian Gothic, architecture.
324.	Voting.
922.4	Waldenses biography.
553.70	Waters, mineral.
376.9	Woman's education.
591.9	Zoölogy, geographical.

Table 2.— Form Divisions.

The form distinctions 01, Philosophy; 02, Compends; 03, Dictionaries; 04, Essays; 05, Periodicals; 06, Societies; 07, Study and Teaching; 08, Polygraphy, Collective Works; 09, History, can be used wherever needed if these numbers are not already employed with other significations. They have been printed in the full tables only where they seemed specially needed.

The following is an alphabetical list of these divisions, and the figures prefixed should be *added* to the number of the subject to be sub-divided; e. g. Disputations on Chemistry in general 540.4; Dictionaries of Mining 622.03.

06 Academies.
06 Acts of societies.
04 Addresses.
06 Associations.
02 Charts. Tabular views. Compends.
08 Collected works.
08 Collections.
02 Compends.
03 Concordances.
03 Cyclopedias.
03 Dictionaries.
04 Discourses.
04 Disputations.
07 Education.
03 Encyclopedias.
04 Essays.
06 Exhibitions.
08 Extracts.
09 History.
04 Lectures.
04 Letters.
03 Lexicons.
08 Libraries, collections, series.
05 Magazines.
02 Manuals.
08 Maxims.
01 Methods.
08 Miscellanies.
07 Museums.
02 Outlines.
04 Papers.
05 Periodicals.
01 Philosophy.
08 Polygraphy.
06 Reports of societies.
05 Reviews.
07 Schools.
07 Seminaries.
06 Societies.
07 Study.
02 Systems.
07 Teaching.
01 Theories.
04 Tracts.
07 Training schools.
06 Transactions.
08 Treatises.
01 Utility.

Table 3. — Languages.

The table below includes all languages mentioned in the classification, except those in 494—499, not yet sub-divided.

Any language in this table may be sub-divided like 420, English.

Any philological topic in the index may be transferred to another language by replacing the initial figures of the language, as found in this table, by those of the second language also found here; e. g., Syntax, English language, in the index is 425.2. In this table, English is 42 and French is 44; replacing the 42 by 44 gives 445.2 French syntax. Hebrew is 492.4, and Hebrew syntax is 492.452.

A third way to sub-divide the language is to prefix the language figures as given in this table to the philological numbers given in Table 4.

All three methods give the same result.

491.58 Afghani.
492.8 Amharic.
429. Anglo Saxon.
492.7 Arabic.
492.1 Aramaic.
491.54 Armenian.
491.68 Armorican.
492.19 Assyrian.
491.52 Avestan, Zend.
492.19 Babylonian.
491.52 Bactrian, Old.
491.68 Bas Breton.
491.69 Basque.
491.44 Bengali.
491.86 Bohemian.
491.68 Breton, Bas.
491.81 Bulgarian.
492.6 Carthaginian.
449.9 Catalan.
492.2 Chaldee.
491.81 Church Slavonic.
493.2 Coptic.
491.67 Cornish.
491.83 Croatian.
492.19 Cuneiform.
491.65 Cymric Group.
491.66 " or Welsh.
439.8 Danish.
439.4 Deutsch, Platt.
439.3 Dutch.
493.1 Egyptian, Old.
42 English.
427.01 " Old.
491.61 Erse, Gadhelic group.
491.63 " Gaelic.
492.8 Ethiopic.
477.5 Etruscan.
439.6 Faroese.
439.3 Flemish.
44 French.
447.01 " Old.
439.2 Frisian.
491.61 Gadhelic Group.
491.63 Gaelic or Scotch.
43 German.
437.02 " Middle High.
437.01 " Old High.
439.9 Gothic.
48 Greek.
489. " Modern.
491.47 Gujerati.
492.4 Hebrew.
492.9 Himyaritic.
491.43 Hindi.
491.1 Hindu languages.
491.43 Hindustani.
491.53 Huzwaresh.
439.6 Icelandic.
491.1 Indic Group.
491.62 Irish.
45 Italian.
492.4 Jewish.
491.83 Kroatian.
491.57 Kurdish.
47 Latin.
479. " Medieval.
491.93 Lettish.
491.92 Lithuanian.
491.93 Livonian.
439.3 Low Dutch.
479 " Latin.
491.64 Manx.
491.46 Marathi.
479. Medieval Latin.
437.02 Middle High German.
489. Modern Greek.
491.55 " Persian.
491.87 Moravian.
492.19 Nineveh Cuneiform.
439.6 Norse, Old.
439.8 Norwegian.
491.52 Old Bactrian.
493.1 " Egyptian.
427.01 " English.
447.01 " French.
437.01 " High German.
439.6 " Norse.
491.51 " Persian.
491.91 " Prussian.
439.2 " Saxon.
491.45 Orissa.
491.56 Ossetic.
491.3 Pali.
491.42 Panjabi.
491.53 Pehlevi.
491.55 Persian, Modern.
491.51 " Old.
492.3 Peshito.
492.6 Phenician.
439.4 Platt Deutsch.
491.89 Polabian.
491.85 Polish.
469. Portuguese.
491.2 Prakrit.
449. Provençal.
491.91 Prussian, Old.
491.58 Pushtu.
459.9 Rhaeto-Romansch.
489. Romaic.
459. Roumanian.
459.9 Rumansh.
491.7 Russian.
491.79 Ruthenian.
492.5 Samaritan.
491.2 Sanskrit.
429. Saxon, Anglo-.
439.2 Saxon, Old.
439.5 Scandinavian languages.
491.63 Scotch or Gaelic.
491.82 Servian.
491.41 Sindhi.
491.48 Singhalese.
491.81 Slavonic, Church.
491.87 Slovakian.
491.84 Slovenian.
491.88 Sorbian.
46 Spanish.
439.7 Swedish.
492.3 Syriac.
491.45 Uriya.
459. Wallachian.
491.66 Welsh.
491.52 Zend.

Table 4. — Philological Divisions.

All the languages in Table 3 can be divided like 420, English, by adding the figures below; e. g.:

English orthography	421
Provençal "	449.1
Arabic "	492.71
Gaelic "	491.631
Syntax of English verbs	425.8
" Modern Greek verbs	489.58
" Danish "	439.858
" Armenian "	491.5458
Inflection of English nouns	425.15
" Anglo-Saxon nouns	429.515
" Hebrew "	492.4515
" Welsh "	491.66515

18 Abbreviations.
12 Ablaut.
16 Accent, pronunciation.
61 " prosody.
51 Accidence.
25 Accusative, etymology.
55 " syntax.
26 Adjectival forms, derivation.
516 Adjectives, inflection.
56 " syntax.
29 Adverbs, derivation.
59 " syntax.
22 Affixes, derivation.
11 Alphabet.
21 Analogy.
53 Analysis, grammar.
67 Antistrophe, prosody.
28 Aorist, etymology.
58 " syntax.
7 Archaisms.
709 Argot.
53 Arrangement of words and clauses.
56 Articles, syntax.
12 Aspirates.
28 Augment, etymology.
83 Barbarisms.
83 Blunders.
25 Case endings, derivation.
55 Cases, syntax.
87 Chrestomathies.
53 Clauses, arrangement of.
516 Comparison, inflection.
26 Comparison, signs of, derivation.
54 Conditional sentences.
518 Conjugation.
29 Conjunctions, etymology.
59 " syntax.
28 Conjunctive mood, etymology.
58 " " syntax.
13 Consonants.
12 Crasis.
25 Dative case, etymology.
55 " " syntax.
515 Declension of nouns.
2 Derivation of words.
7 Dialects.
3 Dictionaries.
25 Diminutives, derivation.
12 Diphthongs.
17 Diplomatics.
701 Early forms of language.
86 Elementary readers.
53 Ellipsis.
52 Enallage.
83 Errors of speech.
2 Etymology, derivation.
51 " inflection.
89 Examination papers.
63 Feet, prosody.
64 Figures of prosody.
82 First lessons.
63 Foot, prosody.
24 Foreign elements.
25 Gender, etymology.
25 Genitive case, etymology.
55 " " syntax.
7 Glossaries, dialects.
3 " language.
83 Grammatical errors.
65 Hexameters.
64 Hiatus.
54 Hypothetical sentences.
31 Idioms.
88 Individual authors, texts.
28 Infinitive mood, etymology.
58 " " syntax.
51 Inflection.
516 " of adjectives.
515 " " nouns.
517 " " pronouns.
518 " " verbs.
17 Inscriptions.
29 Interjections, etymology.
59 " syntax.
29 Interrogatives, etymology.
59 " syntax.
21 Laws of language.
1 Letters, alphabet.
3 Lexicography.
3 Lexicons.
17 Manuscripts.
65 Meters, prosody.
28 Moods, signs of, derivation.
58 " syntax.
52 Morphology.
25 Noun forms, derivation.
515 Nouns, inflection.
55 " syntax.
25 Number, signs of, derivation.
701 Old forms of language.
21 Origin of language.
15 Orthoëpy.
1 Orthography.
17 Palæography.
52 Parsing.
29 Particles, derivation.
59 " syntax.
27 Personal pronouns, derivation.
14 Phonetic spelling.
82 Phrase book.
27 Possessive pronouns, derivation.
57 " " syntax.
22 Prefixes, derivation.
29 Prepositions "
59 " syntax.
27 Pronominal forms, derivation.
517 Pronouns, inflection.
57 " syntax.
15 Pronunciation.
82 Prose composition.
6 Prosody.
7 Provincialisms.
19 Punctuation.
61 Quantity, prosody.
86 Readers, elementary.
87 " selections.
23 Reduplication, derivation.
27 Relative pronouns, "
57 " " syntax.
66 Rhymes, prosody.
66 Rhyming dictionary.
8 School books and texts.
87 Selections, readers.
54 Sentences of particular form.
709 Slang.
81 Spelling books.
14 " reform.
67 Strophe, prosody.
22 Suffixes, derivation.
4 Synonyms.
52 Syntax.
28 Tense signs, derivation.
58 " syntax.
8 Text books.
68 " " for writing verse.
88 Texts of individual authors.
12 Umlaut.
83 Use of words.
28 Verbal forms, derivation.
518 Verbs, inflection.
58 " syntax.
68 Verse, text books for writing.
62 Versification.
28 Voice signs, derivation.
12 Vowels.
83 Vulgarisms.
53 Words, arrangement of.
2 " etymology.
83 " use of.

Table 5. — Literatures.

The form divisions of English literature: 1, Poetry; 2, Drama; 3, Fiction; 4, Essays; 5, Oratory; 6, Letters; 7, Satire and Humor; 8, Miscellany; may be used to sub-divide any of the languages in the following tables; and any division of English literature in the index referring to this table may be used in sub-dividing another literature, by replacing the initial figures 82 (denoting English) by the figures of the 2d language as given in this table.

Thus Ballads, English literature in the index are 821.04 and in this table Spanish is 86, therefore 861.04 is Spanish ballads; 891.7 is Russian and 891.7104 is Russian ballads.

While this minute division is possible, it is not expedient in all cases: e. g. Icelandic literature will contain little except in one or two of these divisions and a special arrangement similar to 829 Anglo-Saxon is much more convenient.

891.58	Afghani.
892.8	Amharic.
892.7	Arabic.
892.1	Aramaic.
891.54	Armenian.
891.68	Armorican.
892.19	Assyrian.
891.52	Avestan, Zend.
892.19	Babylonian.
891.52	Bactrian, Old.
891.68	Bas Breton.
891.69	Basque.
891.44	Bengali.
891.86	Bohemian.
891.68	Breton, Bas.
891.81	Bulgarian.
892.6	Carthaginian.
849.9	Catalan.
892.2	Chaldee.
891.81	Church Slavonic.
893.2	Coptic.
891.67	Cornish.
891.83	Croatian.
892.19	Cuneiform.
891.65	Cymric Group.
891.66	" or Welsh.
839.8	Danish.
839.4	Deutsch, Platt.
839.3	Dutch.
893.1	Egyptian, Old.
82	English.
891.61	Erse, Gadhelic group.
891.63	" Gaelic.
892.8	Ethiopic.
839.6	Faroese.
839.3	Flemish.
84	French.
839.2	Frisian.
891.61	Gadhelic Group.
891.63	Gaelic or Scotch.
83	Germar.
839.9	Gothic.
889.	Greek, Modern.
891.47	Gujerati.
892.4	Hebrew.
892.9	Himyaritic.
891.43	Hindi.
891.1	Hindu languages.
891.43	Hindustani.
891.53	Huzwaresh.
839.6	Icelandic.
891.1	Indic Group.
891.62	Irish.
85	Italian.
892.4	Jewish.
891.83	Kroatian.
891.57	Kurdish.
879.	Latin, Medieval.
891.93	Lettish.
891.92	Lithuanian.
891.93	Livonian.
839.3	Low Dutch.
879	" Latin.
891.64	Manx.
891.46	Marathi.
879.	Medieval Latin.
889.	Modern Greek.
891.55	" Persian.
891.87	Moravian.
892.19	Nineveh Cuneiform.
839.6	Norse, Old.
839.8	Norwegian.
891.52	Old Bactrian.
893.1	" Egyptian.
839.6	" Norse.
891.51	" Persian.
891.91	" Prussian.
839.2	" Saxon.
891.45	Orissa.
891.56	Ossetic.
891.3	Pali.
891.42	Panjabi.
891.53	Pehlevi.
891.55	Persian, Modern.
891.51	" Old.
892.3	Peshito.
892.6	Phenician.
839.4	Platt Deutsch.
891.89	Polabian.
891.85	Polish.
869.	Portuguese.
891.2	Prakrit.
849.	Provençal.
891.91	Prussian, Old.
891.58	Pushtu.
859.9	Rhaeto-Romansch.
889.	Romaic.
859.	Roumanian.
859.9	Rumansh.
891.7	Russian.
891.79	Ruthenian.
892.5	Samaritan.
891.2	Sanskrit.
839.2	Saxon, Old.
839.5	Scandinavian languages.
891.63	Scotch or Gaelic.
891.82	Servian.
891.41	Sindhi.
891.48	Singhalese.
891.81	Slavonic, Church.
891.87	Slovakian.
891.84	Slovenian.
891.88	Sorbian.
86	Spanish.
839.7	Swedish.
892.3	Syriac.
891.45	Uriya.
859.	Wallachian.
891.66	Welsh.
891.52	Zend.

Biscoe time and Olin biografy book numbers

Biscoe time numbers This scheme provides for arranging books by years from 1000 B C–2000 A D. Each number consists of a single initial letter followed by figures, and these again, if necessary, by letters. Any year of the 19th century, in which the greater proportion of our books belong, is designated by a letter and single figure. For the 3 preceding centuries a letter and 2 figures are needed, only incunabula and ancient writings requiring a letter and 3 figures. Few characters are wasted for the period when few books were written, as A, B, and C cover the years to 1499 A D.

To D, E, F, which stand for centuries, 2 figures must be added, the number for a book publisht in 1652 being E52; in 1507, D07.

B, covering the first 10 centuries and C, covering 5 centuries, must be followed by 3 figures; thus a book issued in 1472 would be numberd C472.

Table of Biscoe numbers

A	B. C.	**J**	1830–1839	**S**	1920–1929
B	A D1–999	**K**	1840–1849	**T**	1930–1939
C	1000–1499	**L**	1850–1859	**U**	1940–9149
D	1500–1599	**M**	1860–1869	**V**	1950–1959
E	1600–1699	**N**	1870–1879	**W**	1960–1969
F	1700–1799	**O**	1880–1889	**X**	1970–1979
G	1800–1809	**P**	1890–1899	**Y**	1980–1989
H	1810–1819	**Q**	1900–1909	**Z**	1990–1999
I	1820–1829	**R**	1910–1919		

American books take their numbers from the last copyright date; English and other foren books, from date of publication: e. g. Dana's *Text book of geology*, Phil. 1864, copyright '63 has as its booknumber M3; edition 2 of the same book publisht and copyrighted in 1874 is N4. Weller's *Portable atlas of physical geography*, London 1873, is N3.

A series or set takes its number from the first volume, even tho that may be lacking in the library set; e. g. *Popular science monthly*, v. 10-20, is M2, the date of v. 1 not of v. 10. When more than one volume in the same class calls for the same number, these numbers are differentiated by adding lower case letters; e. g. Bradbury & Emery's *Academic algebra*, Sensenig's *Numbers universalized*, and Well's *Short course in higher algebra* all publisht in 1889 call for O9. Supposing them to come into the library in the above order, Bradbury would be O9; Wells O9a; Sensenig, O9b. In a closely clast library additions to final subdivisions are seldom more than one a year. In the exceptional cases, use of a letter allows for 26 additions; the numbers are therefore neither long nor complicated.

If in dout, an approximate date may be used and corrected later when full information is acquired. Hunting down obscure dates consumes a

great deal of time and in the average library is not worth what it costs. L alone would mean a book publisht somewhere in the '50s of the present century, and F9 one of the last decade of the 18th (F09 being the mark for 1709). This occasional uncertainty is analogous to the case of anonymous and pseudonymous books in an author arrangement.

Dates B. C. may be treated in any one of the 3 ways suggested below. If numbers are given from date of writing or first publication there will be a few A books; but if from date of printing or copyright, none at all. Of the 3 ways below of treating dates B. C. the first is best:

1 Subtract the decade B. C. from 99 and use the resulting number, thus securing correct order with a shorter number than in 2. This approximate date is close enough, since exact year of writing is difficult to determin and the number of books in any subject in a single decade small.

Alternativs are:

2 Subtract the date B. C. from 1000 and use the resulting number, which will secure proper sequence.

3 Use actual B C. date, since among so few books no great confusion would result from thus inverting the regular order.

Resulting numbers would then be:

Year B. C.	Complementary decade (1)	Complementary year (2)	Actual date (3)
999	Correct order A00	A001	Inverted order A999
563	A43	A437	A563
73	A92	A927	A73
45	A95	A955	A45

Olin book numbers The best means of separating collectiv from individual biografy is Olin book numbers. They are used exactly like Cutter author numbers; but as they translate all surnames of compilers into A followd immediately by figures, they precede the first Cutter number, Aa1 and thus automatically shelv biografic compilations before the cutterd individual lives; e. g. Strickland's *Queens of England* would be A84 (Olin number) and stand before a life of Queen Anne, An7 (Cutter number) whether clast 920 or 923.1.

Table of Olin numbers

From *Library journal* 18:144

Name	Number	Name	Number	Name	Number	Name	Number
A	A11	Forr	A34	Lod	A56	Sch	A78
Ba	A12	Ga	A35	Ma	A57	Scr	A79
Bel	A13	Ges	A36	McT	A58	Sea	A81
Boy	A14	Goe	A37	Mat	A59	Sia	A82
Ca	A15	Grat	A38	Merr	A61	Sma	A83
Caro	A16	Ha	A39	Mo	A62	Squa	A84
Cel	A17	Hat	A41	Mos	A63	Sva	A85
Chim	A18	Hesi	A42	Na	A64	Ta	A86
Clar	A19	Hiu	A43	Nee	A65	Thau	A87
Coh	A21	Hov	A44	O	A66	To	A88
Coom	A22	I	A45	Pa	A67	Trum	A89
Cs	A23	Ja	A46	Per	A68	U	A91
Da	A24	Ji	A47	Ple	A69	V	A92
Day	A25	Ka	A48	Q	A71	Wa	A93
Dick	A26	Keno	A49	Ra	A72	Wats	A94
Doy	A27	Klu	A51	Rem	A73	Wha	A95
Ea	A28	La	A52	Rim	A74	Wit	A96
En	A29	Lann	A53	Rol	A75	X	A97
Fa	A31	Le	A54	Ru	A76	Y	A98
Fel	A32	Lind	A55	Sa	A77	Z	A99
Fit	A33						

If Cutter-Sanborn tables (in which vowels like consonants arc followd by figurcs) are used, mark collected biografy with A followd by a shortend Cutter-Sanborn number for author or compiler, writing the initial letter of the Cutter-Sanborn number with a lower case lettcr; e. g. Strickland's *Lives of the queens of England*, the Cutter-Sanborn number for Strickland being S917, would be markt As9 or Johnston's *Leading American soldiers*, the number for Johnston being J73, would be Aj7

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
2.5 mm 1234567890

ABCDEFGHIJKLMNOPQRSTUVWXYZ
2.0 mm abcdefghijklmnopqrstuvwxyz1234567890

ABCDEFGHIJKLMNOPQRSTUVWXYZ
1.5 mm abcdefghijklmnopqrstuvwxyz1234567890

PM-MGP
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PHOTOGRAPHIC

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150 mm

100 mm

A5

A4

A3

1.0 mm

1.5 mm

2.0 mm

2.5 mm

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4.5 mm 1234567890

ABCDEFGHIJKLMNOPQRSTUVWXYZ
3.5 mm abcdefghijklmnopqrstuvwxyz1234567890

ABCDEFGHIJKLMNOPQRSTUVWXYZ
3.0 mm abcdefghijklmnopqrstuvwxyz1234567890

END OF REEL

PLEASE
REWIND